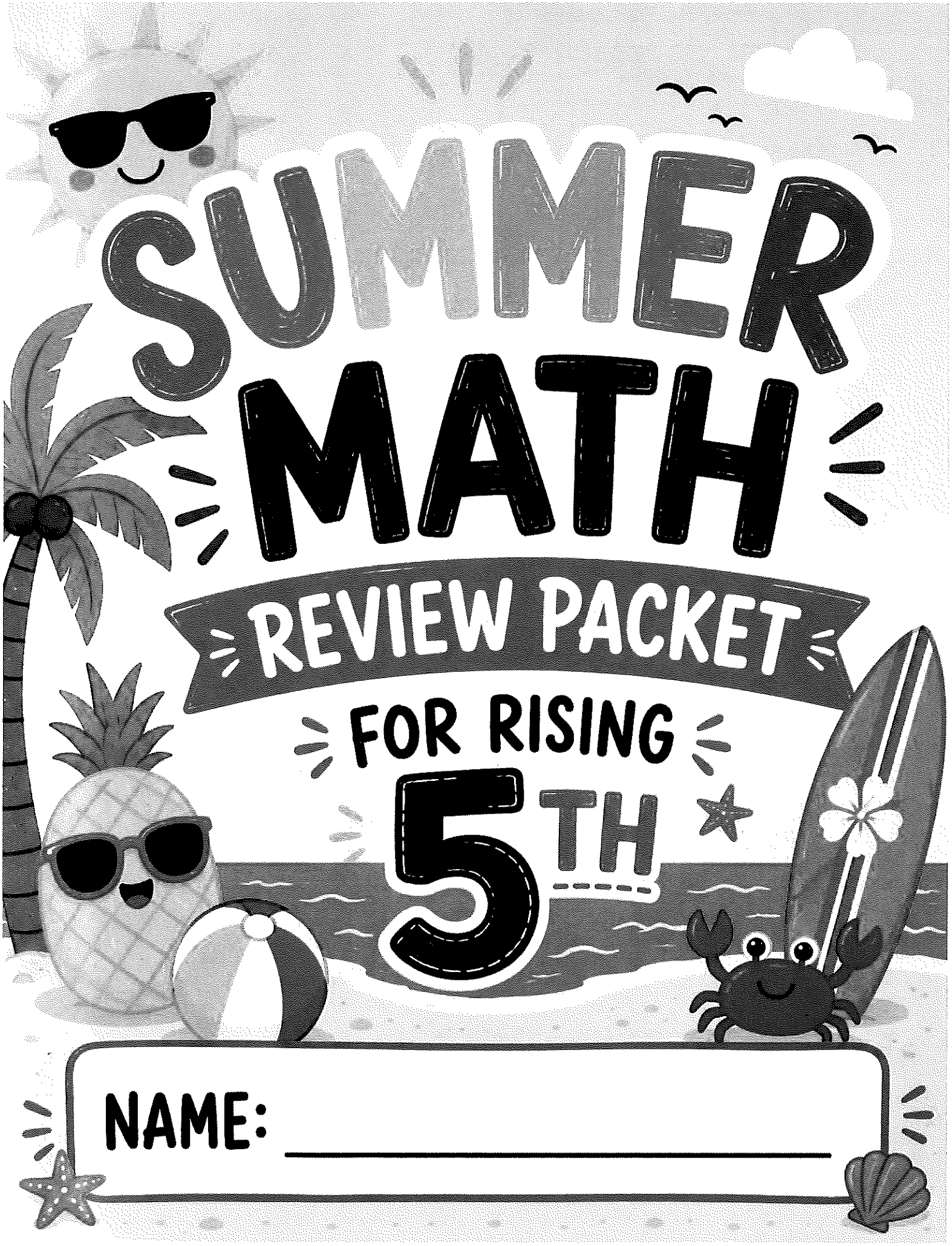

SUMMER
MATH
REVIEW PACKET
FOR RISING
5TH
NAME:

Dear Parents and Guardians,

As we begin summer break, we want to thank you for your partnership and support throughout the school year. We are incredibly proud of the growth and hard work our students have shown in mathematics from kindergarten through eighth grade.

To help students maintain and strengthen their math skills over the summer, we are sending home a Summer Math Review Packet. Research consistently shows that students can experience "summer learning loss" when academic skills are not practiced regularly during the break. Even a small amount of consistent review can make a tremendous difference in helping students retain important concepts and begin the new school year with confidence.

We encourage students to work on a few problems from each worksheet every week rather than trying to complete the entire packet all at once. Short, regular practice sessions are far more effective for long-term learning and help students build strong problem-solving habits. Just 15–20 minutes of math review several times a week can keep skills sharp and reduce frustration when school resumes in the fall.

As your child works through the packet, encourage them to:

- Show their work and explain their thinking
- Take their time and check their answers
- Ask questions when they are unsure
- Practice perseverance with challenging problems

Math is a skill that grows with practice, and your encouragement at home plays an important role in your child's success. We hope this packet serves as a helpful tool to keep learning active throughout the summer months.

Thank you for your continued support. We wish your family a safe, relaxing, and enjoyable summer!

Sincerely,
St. John's Math Teachers

Name: _____ Date: _____

TOPIC 1
Review

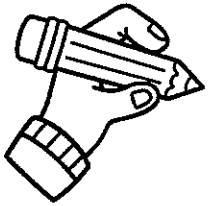
Use what you have learned about **place values** to solve each question.

1.

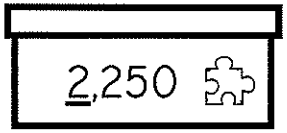
THOUSANDS	HUNDREDS	TENS	ONES
7 ,	1	4	6

Write the number 7,146 in **expanded form**.

2. In California, there were 431,016 students who graduated high school. Write this number in **word form**.

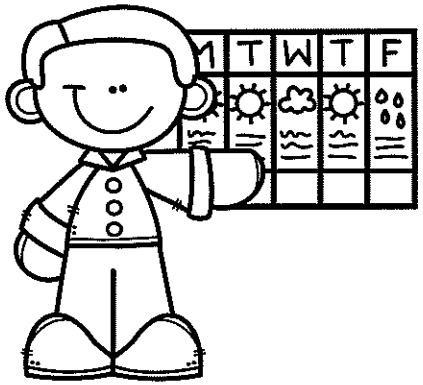


3. Tom's puzzle has 2,250 pieces in it. What is true about the 2 in the thousands place?



- ○ It is 10 times *less* than the other 2.
- ○ It is 10 times *more* than the other 2.
- ○ It is the same value as the other 2.

4. The weather man says there have been 10 times as many sunny days this year than there were last year. How many sunny days were there last year?



This Year	Last Year
300	

5. Use **symbols** to compare numbers. Write <, >, or = in each circle.

390 ◯ 360 10,046 ◯ 10,064

8,059 ◯ 9,541 762,115 ◯ 765,841

6,020 ◯ 6,020 238,901 ◯ 235,901

6. Marcus compared some numbers. Decide if each of his comparisons is true or false.

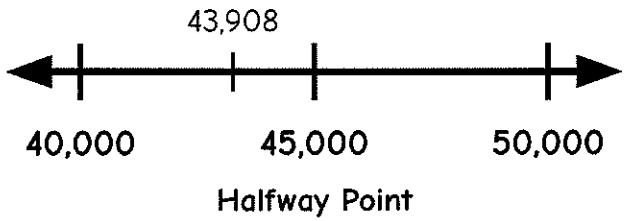
	True	False
19,332 < 19,223	☐	☐
56,802 > 56,208	☐	☐
882,501 = 882,501	☐	☐

7. Choose all the numbers that round to **35,000** when rounded to the nearest thousand.

- ☐ 34,960
- ☐ 35,807
- ☐ 3,485
- ☐ 35,160

Round each number to the place of the underlined digit.

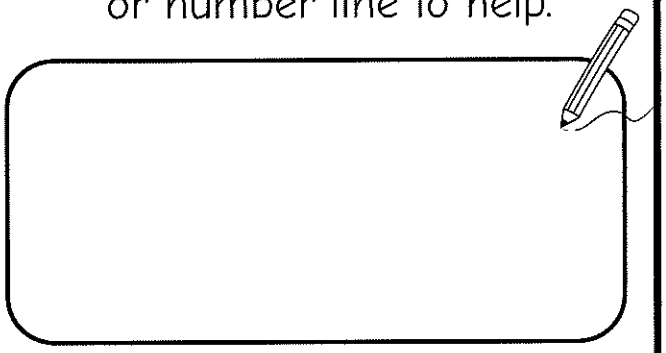
8. Use the halfway point to help.



4<u>3</u>,908 rounded to the nearest ten thousand is:

_____

9. Draw a place-value chart or number line to help.



<u>6</u>,715 rounded to the nearest thousand is:

_____

10. Write the **whole number** that represents the value of the <u>underlined</u> digit in the boxes. Use the place-value chart to help.

HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONES

1<u>8</u>5,032 ____

1<u>6</u>,203 ____

70,<u>9</u>61 ____

<u>3</u>41,897 ____

It was reported that there were 562,049 Grey-Headed Parrots and 562,940 Meyer's Parrots in Africa. Greg says there are more Grey-Headed Parrots than Meyer's Parrots.

11. Choose which place value will you need to compare:

- ○ hundred thousand
- ○ ten thousand
- ○ thousand
- ○ hundred

12. Is Greg's conjecture correct? Use words, numbers, or drawings in your argument.

Name: _____ Date: _____

TOPIC 1
Quiz

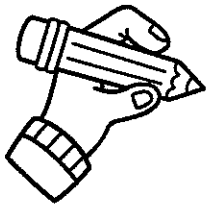
Use what you have learned about **place values** to solve each question.

1.

TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONES
1	4 ,	9	2	0

Write the number 14,920 in **expanded form**.

2. In 2022, there were 812,670 people living in San Francisco. Write this number in **word form**.

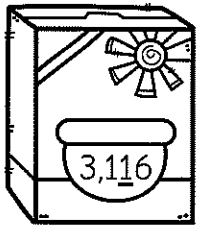


_____

_____

_____

3. There are 3,116 pieces of cereal in a box. What is true about the 1 in the tens place?



- ○ It is 10 times *less* than the other 1.
- ○ It is 10 times *more* than the other 1.
- ○ It is the same value as the other 1.

4. Miss Taylor's 4th grade class collected **10** containers of pencils. Each container has exactly **60** pencils in it. How many pencils did her class collect in all?

1 Container	10 Containers
60	

5. Use **symbols** to compare numbers. Write <, >, or = in each circle.

234 ◯ 243 61,992 ◯ 61,995

4,803 ◯ 4,803 590,201 ◯ 580,201

9,151 ◯ 9,115 304,261 ◯ 304,621

6. Kelly compared some numbers. Decide if each of her comparisons is true or false.

	True	False
26,804 = 26,840	☐	☐
91,337 < 91,733	☐	☐
504,185 > 504,285	☐	☐

7. Choose all the numbers that round to **5**0,000 when rounded to the nearest ten thousand.

☐ 46,975

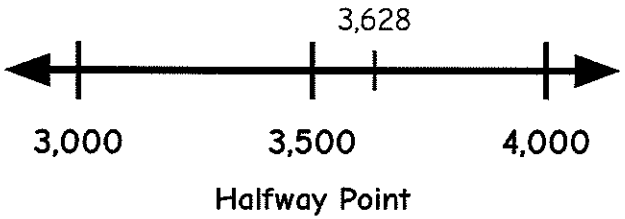
☐ 52,316

☐ 42,085

☐ 57,892

Round each number to the place of the underlined digit.

8. Use the halfway point to help.



3,628 rounded to the nearest thousand is:

_____

9. Draw a place-value chart or number line to help.

22,401 rounded to the nearest ten thousand is:

_____

10. Write the **whole number** that represents the value of the <u>underlined</u> digit in the boxes. Use the place-value chart to help.

HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONES

6<u>1</u>,905 ____

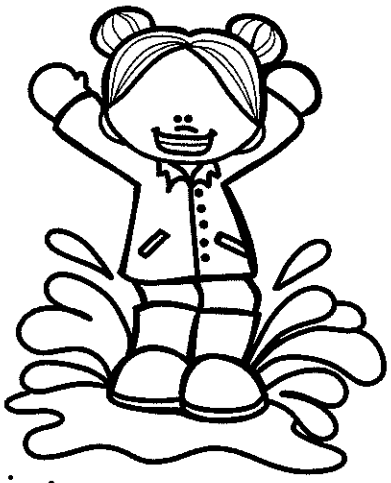
4<u>0</u>5,727 ____

92<u>3</u>,811 ____

10,6<u>2</u>8 ____

The two longest rivers in the USA are the Mississippi River (2,340 miles long) and the Missouri River (2,540 miles long). Jen says the Missouri River is the longest river in the USA.

11. Choose which place value will you need to compare:



- ○ thousand
- ○ hundred
- ○ ten
- ○ one

12. Is Jen's conjecture correct? Use words, numbers, or drawings in your argument.

Name: _____ Date: _____

TOPIC 2
Review

Add or **subtract** multi-digit numbers to solve each question.

1. Use **compensation** or another strategy to solve: 7,382 + 1,605 = _____

2. **Estimate** the difference by rounding the numbers to the nearest ten thousand.

63,590 → □□,□□□

- 48,224 → □□,□□□

_____

3. The table shows the amount of trash the environment club picked up at a park.

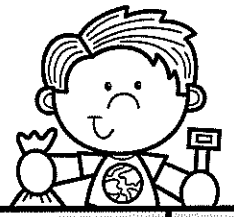
A. **Estimate** the total pieces of trash that were picked up. Round to the nearest thousand.

B. Write and solve an equation to find the true **total**.

□,□□□

□,□□□

+ □,□□□



Type of Trash	Pieces
Cans	2,049
Straws	1,868
Wrappers	2,275

Use the **standard algorithm** to add or subtract numbers. Regroup if needed.

4. Add.

$$\begin{array}{r} 5{,}620 \\ +\ \ 893 \\ \hline \end{array} \qquad \begin{array}{r} 9{,}244 \\ +\ 1{,}608 \\ \hline \end{array}$$

5. Subtract.

$$\begin{array}{r} 661 \\ -\ 390 \\ \hline \end{array} \qquad \begin{array}{r} 420{,}873 \\ -\ 316{,}490 \\ \hline \end{array}$$

6. What numbers are missing? Fill them in to find the difference.

$$\begin{array}{r} 783{,}873 \\ -\ 49{,}152 \\ \hline 7\square\square{,}7\square 1 \end{array}$$

7. Jacob wrote 2 equations down. He says they will both equal the same sum due to addition properties. Is he correct? Tell if you agree and **explain** your thinking.

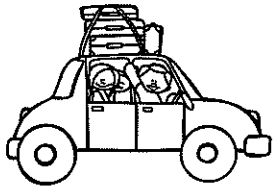
$3{,}100 + 1{,}500 + 2{,}300 = 1{,}500 + (2{,}300 + 3{,}100)$

8. There are **40,000** tickets on sale for seats in a football stadium. There are only **12,403** tickets left. How many tickets were sold? Subtract to find the difference.

$$\begin{array}{r} 40{,}000 \\ -\ 12{,}453 \\ \hline \end{array}$$

_____ tickets

9. A family travels **1,426** miles during a road trip. Then, they travel **529** more miles. How many miles has the family traveled in all? Write an equation and solve.



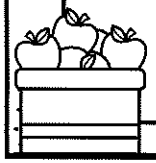
_____ miles

10. The table shows how many items were sold at a farmers market this weekend. Use the information to figure out **how many more apples** were sold than bananas and cantaloupe combined.

Farmers Market Sales		
Apples	Bananas	Cantaloupe
2,694	1,581	1,003

A. **Solve** the hidden question and the main question. Use models and/or equations.

B. Use **estimates** to check that your answer is reasonable.



_____ more apples were sold.

Name: _____ Date: _____

TOPIC 2
Quiz

Add or **subtract** multi-digit numbers to solve each question.

1. Use **compensation** or another strategy to solve: 12,639 - 8,130 = _____

2. **Estimate** the sum by rounding the numbers to the nearest thousand.

$$\begin{array}{r} 24{,}165 \rightarrow \square\square,\square\square\square \\ +\ 17{,}910 \rightarrow \square\square,\square\square\square \\ \hline \end{array}$$

_____

3. The table shows the amount of insects found by the nature club on a walk.

A. **Estimate** the total pieces of insects that were found. Round to the nearest <u>hundred</u>.

B. Write and solve an equation to find the true **total**.

$$\begin{array}{r} \square,\square\square\square \\ \square,\square\square\square \\ +\ \square,\square\square\square \\ \hline \end{array}$$

Type of Insect	Found
Butterfly	1,692
Ladybug	1,081
Fly	2,357

Use the **standard algorithm** to add or subtract numbers. Regroup if needed.

4. Add.

$$\begin{array}{r} 8{,}242 \\ +\ \ 489 \\ \hline \end{array} \qquad \begin{array}{r} 308{,}921 \\ +\ 516{,}039 \\ \hline \end{array}$$

5. Subtract.

$$\begin{array}{r} 4{,}660 \\ -\ 2{,}534 \\ \hline \end{array} \qquad \begin{array}{r} 51{,}375 \\ -\ 18{,}026 \\ \hline \end{array}$$

6. What numbers are missing? Fill them in to find the difference.

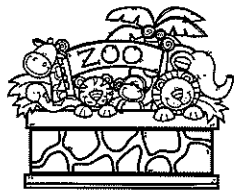
$$\begin{array}{r} 88{,}329 \\ -\ 24{,}715 \\ \hline 6\square{,}\square\square4 \end{array}$$

7. Sara wrote 2 equations down. She says they will both equal the same sum due to addition properties. Is she correct? Tell if you agree and **explain** your thinking.

$460 + 337 = (400 + 300) + (60 + 30) + 7$

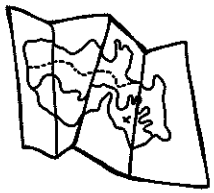
8. There were **15,000** guests at the zoo. In the afternoon, **8,651** guests left. How many guests are still there? Subtract to find the difference.

$$\begin{array}{r} 15{,}000 \\ -\ 8{,}651 \\ \hline \end{array}$$



_____ guests

9. According to the 2020 census about Washington state, Bellevue had **151,854** residents and Kent had **136,588** residents. How many residents did they have in all? Write an equation and solve.

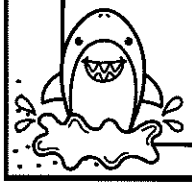


_____ residents

10. The table shows the number of votes each animal received in a survey about favorite animals. Use the information to figure out **how many fewer** votes shark got than lion and tiger combined.

Favorite Animals		
Lion	Shark	Tiger
865	1,245	907

A. **Solve** the hidden question and the main question. Use models and/or equations.



Shark got _____ fewer votes.

B. Use **estimates** to check that your answer is reasonable.

Name: _____ Date: _____

TOPIC 3
Review

Think about strategies and properties when **multiplying** with 1-digit numbers.

1. Solve all of the following:

$3 \times 5 =$ _____

$3 \times 50 =$ _____

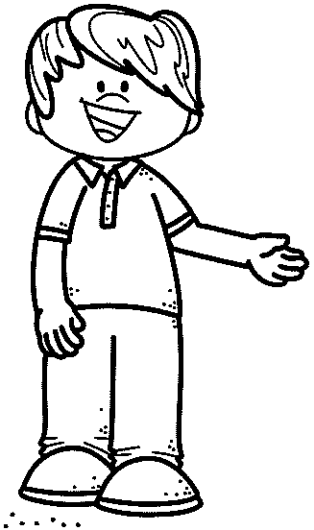
$3 \times 500 =$ _____

$3 \times 5{,}000 =$ _____

2. Use basic facts to help you multiply by multiples of **10**, **100**, and **1000**.

60	200	3,000	70
× 7	× 4	× 8	× 2

3. Round numbers to **estimate** each product.

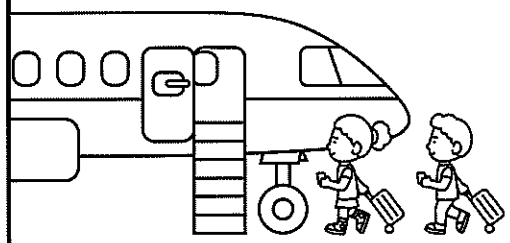


$5 \times 38 =$ _____

$412 \times 7 =$ _____

$9 \times 2{,}079 =$ _____

4. Plane tickets to Florida cost **$438**. Allie and her brother bought one ticket each. *About* how much money did they spend on tickets in all? Round to make a close **estimate**.



About $_____

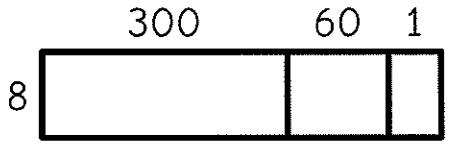
5. Ricky is buying some new shirts for school. Each shirt costs **$18**. Ricky buys **4** new shirts.

A. Ricky thinks the total cost should be *about* **$80**. Is this a <u>reasonable</u> estimate? Explain.

B. Write and solve an equation to find the **total cost** of the shirts. Explain why your answer is <u>reasonable</u>.

6. Choose <u>all</u> the **partial products** for 8 x 361.

A.

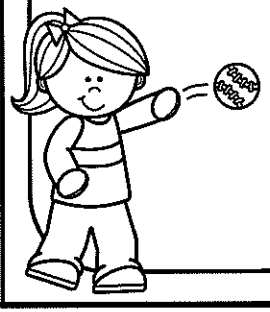


☐ 240 ☐ 2,400 ☐ 48 ☐ 480 ☐ 8

B. **Solve.**

$$\begin{array}{r} 361 \\ \times \quad 8 \\ \hline \end{array}$$

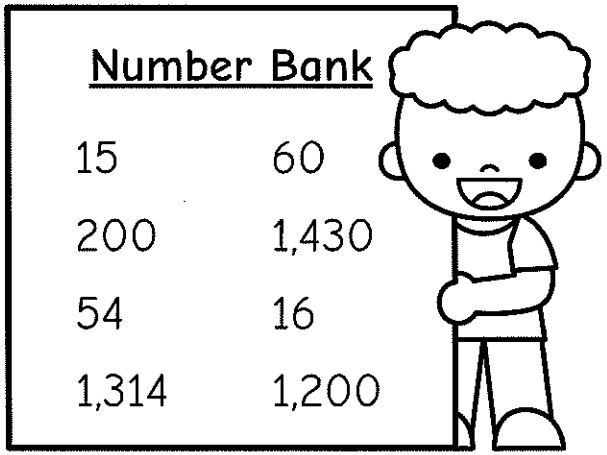
7. Sofia is practicing pitching. She threw **47** pitches **3** days in a row. Write an equation to find out how many pitches Sofia threw <u>in all</u>. Draw an **area model** in the space below and solve.



_____ pitches

8. Use numbers from the Number Bank to show how to multiply 219 × 6.

$$\begin{array}{r} 219 \\ \times \quad 6 \\ \hline \square \\ \square \\ +\square \\ \hline \square \end{array}$$



Use partial products to solve.

9.
$$\begin{array}{r} 1{,}783 \\ \times \quad 5 \\ \hline \end{array}$$

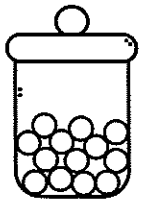
10.
$$\begin{array}{r} 275 \\ \times \quad 4 \\ \hline \end{array}$$

11. How can you use mental math to find the product of **3 x 480**? Use words, numbers, or models to explain and solve.

12. Which expression has the same value as the equation: **7 x 492**?

- ○ (7 x 400) + (7 x 90) + (7 x 2)
- ○ (7 x 1) + (7 x 9) + (7 x 2)
- ○ (7 + 400) + (7 + 90) + (7 + 2)
- ○ (7 x 200) + (7 x 90) + (7 x 4)

13. The candy shop has jars of candy with exactly **250** pieces in each jar. How many pieces of candy would be in **5** jars?



_____ pieces

14. On Saturday, **1,942** guests visited the penguin exhibit at a zoo. If the same number of guests visit the exhibit **3** days in a row, how many guests will have visited the exhibit <u>in all</u>?

_____ guests

15. The table shows how many drinks students bought at lunch during the week. Students bought **2 times** as much apple juice as water. Students bought **3 times** as much chocolate milk as apple juice.

Lunch Drinks Sold		
Water	Apple Juice	Chocolate Milk
826	?	?

A. Write and solve an equation to find out how much **apple juice** was bought.

_____ bottles of apple juice

B. Write and solve an equation to find out how much **chocolate milk** was bought.

_____ cartons of chocolate milk

Name: _____ Date: _____

TOPIC 3
Quiz

Think about strategies and properties when **multiplying** with 1-digit numbers.

1. Solve all of the following:

$7 \times 9 =$ _____

$7 \times 90 =$ _____

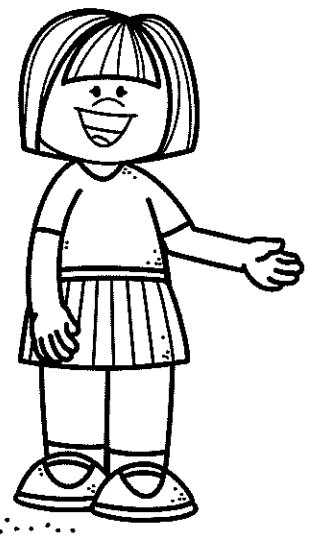
$7 \times 900 =$ _____

$7 \times 9{,}000 =$ _____

2. Use basic facts to help you multiply by multiples of **10**, **100**, and **1000**.

30	500	2,000	40
× 6	× 8	× 3	× 5

3. Round numbers to **estimate** each product.

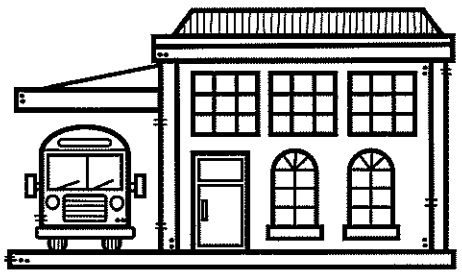


$2 \times 61 =$ _____

$408 \times 4 =$ _____

$8 \times 3{,}986 =$ _____

4. A bus ticket to New York costs **$47**. Ted buys a ticket for all **5** of his family members. *About* how much money did he spend on tickets in all? Round to make a close **estimate**.



About $_____

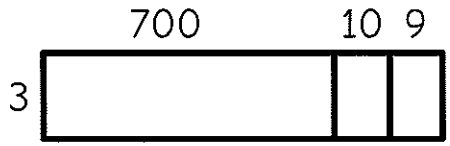
5. Sara is buying some souvenirs on a trip. Each item costs **$32**. She buys **6** souvenirs.

A. Sara thinks the total cost should be *about* **$240**. Is this a reasonable estimate? Explain.

B. Write and solve an equation to find the **total cost** of the souvenirs. Explain why your answer is reasonable.

6. Choose all the **partial products** for 3 x 719.

A.



☐ 2,100 ☐ 210 ☐ 30 ☐ 300 ☐ 27

B. **Solve.**

$$\begin{array}{r} 719 \\ \times \quad 3 \\ \hline \end{array}$$

7. Glen is planting seeds. He planted **68** seeds **2** days in a row. Write an equation to find out how many seeds Glen planted in all. Draw an **area model** in the space below and solve.

_____ seeds

8. Use numbers from the Number Bank to show how to multiply 641 × 4.

$$\begin{array}{r} 641 \\ \times \quad 4 \\ \hline \square \\ \square \\ +\square \\ \hline \square \end{array}$$

Number Bank

2,645	14
4	204
106	2,564
2,400	160

Use partial products to solve.

9.
$$\begin{array}{r} 3{,}416 \\ \times \quad 6 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 199 \\ \times \quad 3 \\ \hline \end{array}$$

11. How can you use mental math to find the product of **5 x 290**? Use words, numbers, or models to explain and solve.

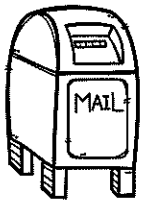
12. Which expression has the same value as the equation: **8 x 714**?

- ○ (8 × 400) + (8 × 10) + (8 × 7)
- ○ (8 + 700) + (8 + 10) + (8 + 4)
- ○ (8 + 7) + (8 + 8) + (8 + 9)
- ○ (8 × 700) + (8 × 10) + (8 × 4)

13. The circus has **175** seats in each section of the tent. How many seats would be in **4** sections combined?

_____ seats

14. On Monday, there were **2,733** envelopes in the mailbox. If the same number of envelopes are in the mailbox **6** days in a row, how many envelopes will there be <u>in all</u>?

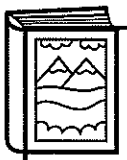


_____ envelopes

15. The table shows how many books customers bought at a bookstore. Customers bought **5 times** as many nature books as biographies. Customers bought **2 times** as many animal books as nature books.

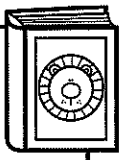
Books Sold at the Bookstore			
Animal	Biographies	Inventions	Nature
?	328	612	?

A. Write and solve an equation to find out how many **nature books** were bought.



_____ nature books

B. Write and solve an equation to find out how many **animal books** were bought.



_____ animal books

Name: _____ Date: _____

TOPIC 4
Review

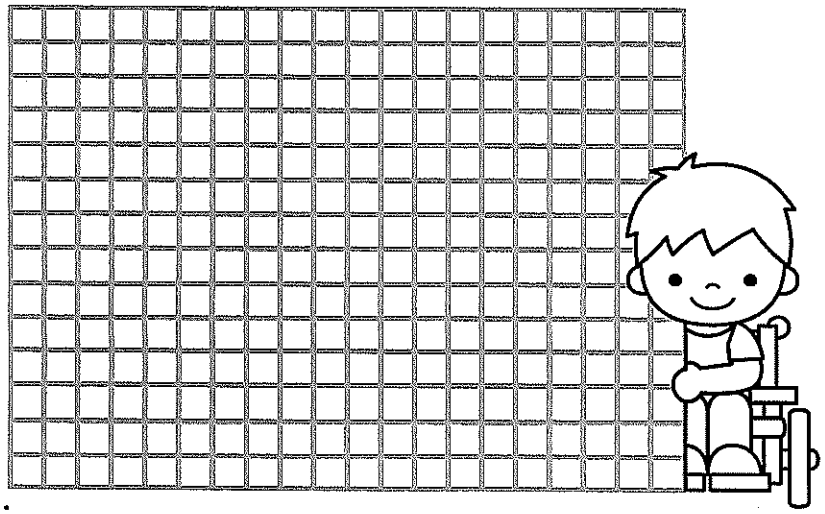
Think about strategies and properties when **multiplying** with 2-digit numbers.

1. Solve the **basic facts** and the facts with multiples of tens. Think of the **zero trick**!

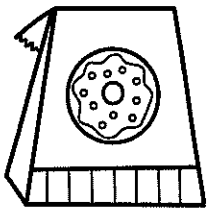
$7 \times 7 =$ _____ $5 \times 8 =$ _____

$70 \times 70 =$ _____ $50 \times 80 =$ _____

3. Use the grid paper below to make an **array** to solve 10×16 _____.



4. Lenny is ordering **24** bags of donuts from the shop. Each bag will have **12** donuts in it. About how many donuts will Lenny receive? Choose the best <u>estimate</u>.

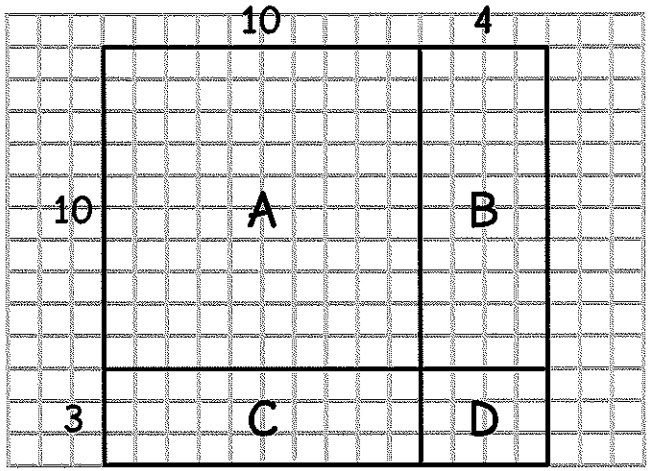


- ○ $20 \times 10 = 200$
- ○ $25 \times 10 = 250$
- ○ $20 \times 15 = 300$
- ○ $25 \times 15 = 375$

5. Solve. Make sure your answer is **reasonable**.

$34 \times 18 =$ _____

6. Jason drew an area model for **13 x 14**. Write the partial product for each rectangle in the area model.



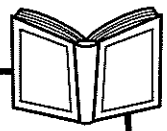
A

B

C

D

7. Faith read a book **12** times for **16** minutes in June. She read a book **15** times for **13** minutes in July. In which month did she read <u>more</u>? Use arrays, models, and/or equations to solve. Then, (circle) your answer.



Faith read more during: June July

8. Which of the following uses properties of operations to help find:

52 x 34?

- ○ 50 + 2 + 3 + 4
- ○ (50 x 30) + (2 x 4)
- ○ 52 + 34
- ○ (50 + 2) x (30 + 4)

Use partial products to solve.

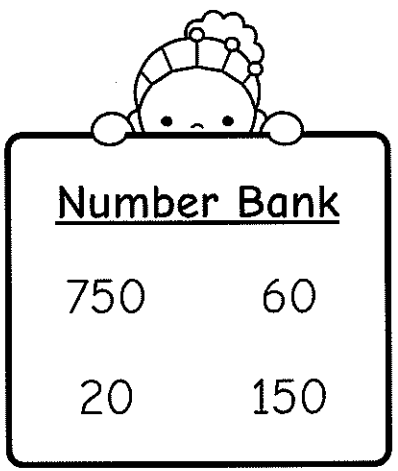
9.

$$\begin{array}{r} 27 \\ \times\ 18 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 64 \\ \times\ 32 \\ \hline \end{array}$$

11. Each goodie bag has **15** pieces of candy in it. Use the numbers in the Number Bank to complete the table.



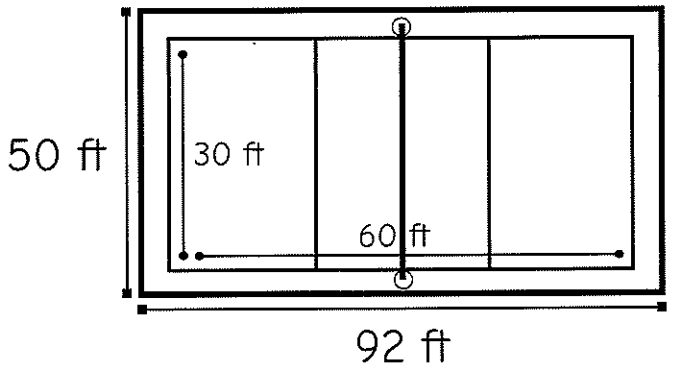
Number Bank

750 60

20 150

# of Bags	# of Candy
10	
	300
50	
	900

12. The volleyball floor is 92 ft long and 50 ft wide. The volleyball court itself is 60 ft long and 30 ft wide. The remaining area is out of bounds space. Find the <u>difference</u> to determine the **area** of the out of bounds space.



Use the space below to find the areas of each section of the volleyball floor. Then, fill in the answer.

The area of the out of bounds space is _____ square ft.

Name: _____ Date: _____

TOPIC 4
Quiz

Think about strategies and properties when **multiplying** with 2-digit numbers.

1. Solve the **basic facts** and the facts with multiples of tens. Think of the **zero trick**!

$6 \times 4 =$ _____ $3 \times 9 =$ _____

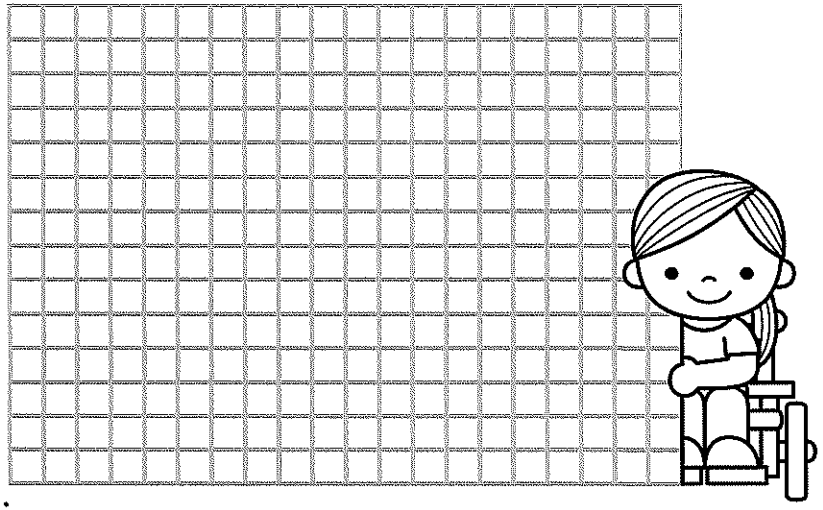
$60 \times 40 =$ _____ $30 \times 90 =$ _____

2. Derek found the product **2,100** by multiplying **70** and one other factor. What was the other factor?

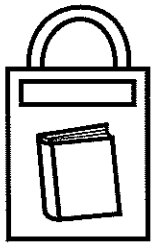
$70 \times$ _____ $= 2{,}100$

- ○ 40
- ○ 30
- ○ 20
- ○ 10

3. Use the grid paper below to make an **array** to solve 12×14 _____.



4. Sal bought **11** bags of books from the book shop. Each bag has **26** books in it. About how many books did Sal buy in all? Choose the best estimate.

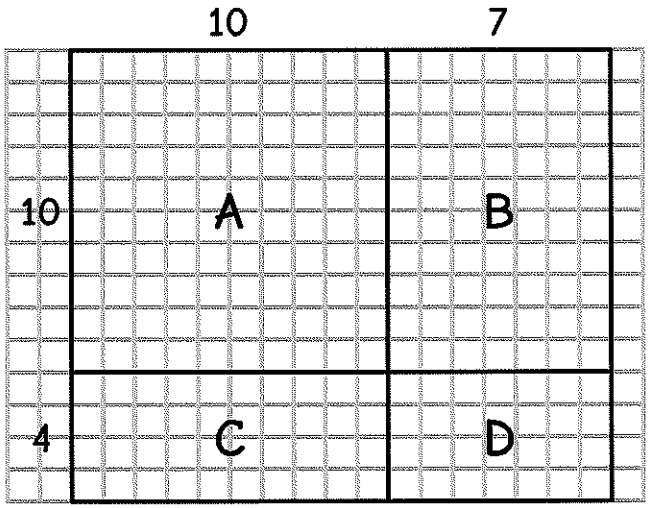


- ○ $15 \times 25 = 375$
- ○ $10 \times 20 = 200$
- ○ $15 \times 30 = 450$
- ○ $10 \times 25 = 250$

5. Solve. Make sure your answer is **reasonable**.

19 x 43 = _____

6. Jason drew an area model for **14 x 17**. Write the partial product for each rectangle in the area model.



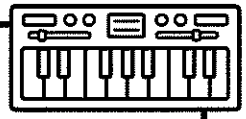
A

B

C

D

7. Daniel practiced playing the piano **13** times for **27** minutes in April. He practiced **15** times for **23** minutes in May. In which month did he practice the piano more? Use arrays, models, and/or equations to solve. Then, circle your answer.



Daniel practiced more during: April May

8. Which of the following uses properties of operations to help find:

68 x 22?

- ○ (60 x 20) + (8 x 2)
- ○ 60 + 8 + 20 + 2
- ○ (60 + 8) x (20 + 2)
- ○ 68 + 22

Use partial products to solve.

9.

$$\begin{array}{r} 51 \\ \times\ 23 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 44 \\ \times\ 19 \\ \hline \end{array}$$

11. Each cake has **20** candles on it. Use the numbers in the Number Bank to complete the table.

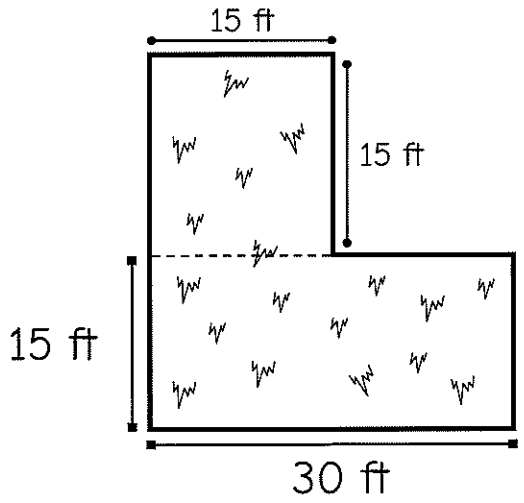
Number Bank

70 1,800

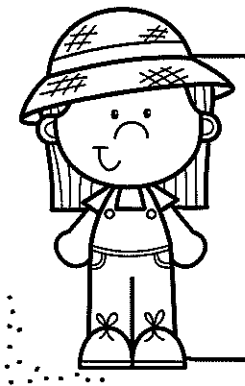
1,000 30

# of Cakes	# of Candles
	600
50	
	1,400
90	

12. The bushes in Kate's yard are in an "L" shape. The top section measures 15 ft long by 15 ft wide. The bottom section measures 30 ft long by 15 ft wide. What is the <u>total area</u> of the bushes?



Use the space below to find the areas of each section of the bushes. Then, fill in the answer.



The total area of the bushes is

_____ square ft.

Name: _____ Date: _____

TOPIC 5
Review

Think about strategies and properties when **dividing** by 1-digit numbers.

1. Solve all of the following:

48 ÷ 6 = _____

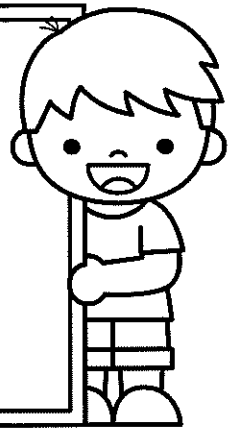
480 ÷ 6 = _____

4,800 ÷ 6 = _____

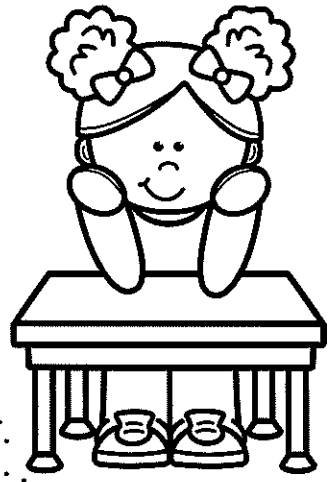
2. Use **basic facts** to help you divide mentally.

2,500 ÷ 5 = _____ 320 ÷ 4 = _____

560 ÷ 8 = _____ 1,800 ÷ 3 = _____



3. Round numbers to **estimate** each quotient.



608 ÷ 2 = _____

3,496 ÷ 5 = _____

1,625 ÷ 4 = _____

4. There are **262** heads of lettuce at the market. There are **9** crates with lettuce in them. *About* many heads of lettuce are in each crate?

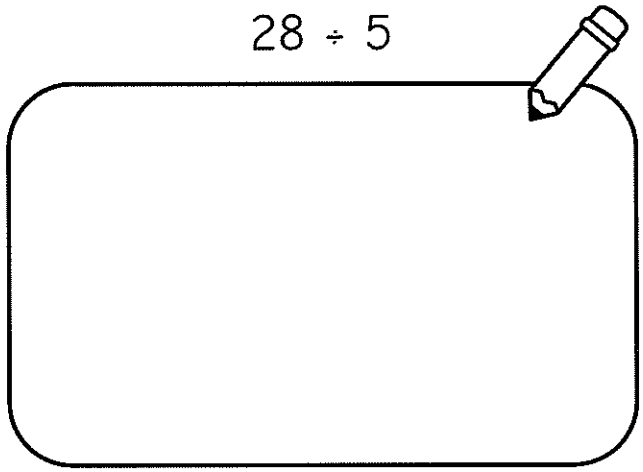
About _____

5. Select all of the equations that are *reasonable* **estimates** for 474 ÷ 6.

- ☐ 450 ÷ 9 = 50
- ☐ 480 ÷ 6 = 80
- ☐ 490 ÷ 7 = 70
- ☐ 500 ÷ 5 = 100
- ☐ 450 ÷ 5 = 90

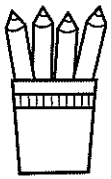
6. Find the number of **groups** and the number **leftover**. Draw an array to help.

28 ÷ 5



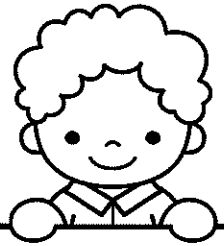
____ groups with ____ leftover

7. Ms. Smith has **38** pencils. She put **4** pencils in each cup. How many pencils will <u>not</u> be placed in a cup?



_____ pencils

8. Use the **Number Bank** to fill in the missing numbers.



Number Bank

0 1

1 2 7

$$\begin{array}{r} 2\square \\ 7\overline{)\,1\square\square} \\ -\ \square 0 \\ \hline 1\,4 \\ -\ \square 4 \\ \hline 0 \end{array}$$

9. Use partial quotients to divide. Draw a model if needed.

765 ÷ 5 = _____

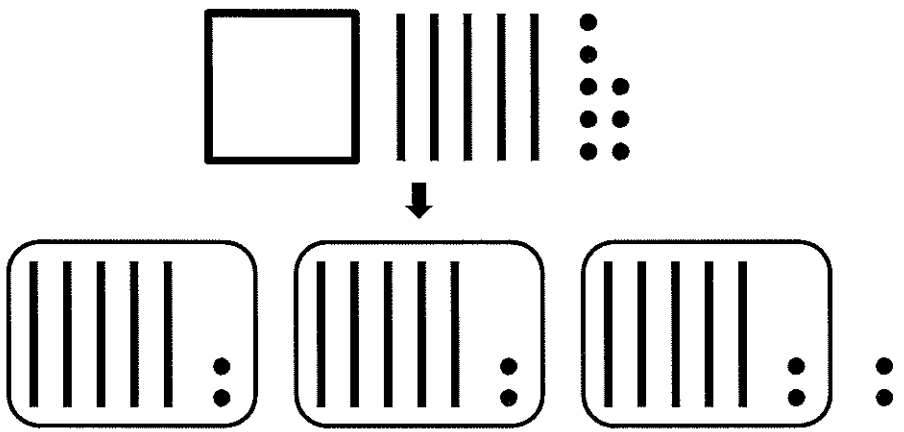
10. Which expressions have a **remainder of 4**? Choose all that do.

- ☐ 54 ÷ 5 = 10 R___
- ☐ 109 ÷ 7 = 15 R___
- ☐ 94 ÷ 7 = 13 R___
- ☐ 77 ÷ 8 = 9 R___

11. **A.** Solve 168 ÷ 4 = _____

B. Use multiplication or an estimation to check:

12. Look at the drawing. Write the division **equation** that is represented by it. Include a remainder if needed.



_____ ÷ _____ = _____

13. Draw a picture or model to explain why 227 ÷ 2 = 113 R1

14. What is the best **estimate** for 3,400 ÷ 5

- ○ 600
- ○ 500
- ○ 700
- ○ 800

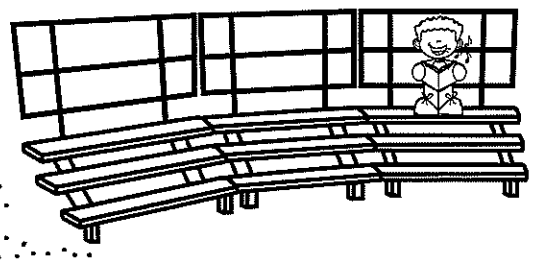
15. Choose a strategy to solve.

5,445 ÷ 9 = _____

16. Which is **NOT** equivalent to 88 ÷ 4?

- ○ (80 + 8) ÷ 4
- ○ (80 ÷ 4) + 8
- ○ (80 ÷ 4) + (8 ÷ 4)
- ○ (48 ÷ 4) + (40 ÷ 4)

17. All **348** fourth graders are performing in a holiday concert. They will be split evenly on a riser with **3** steps. How many students will stand on each step?



_____ students

18. Marsha's Bake Shop makes the best lemon meringue pie. In the kitchen there are **164** lemons. Marsha can fit **7** lemons in each bowl. How many bowls will Marsha need to hold **all** the lemons?

Marsha will need _____ bowls.

Name: _____ Date: _____

TOPIC 5
Quiz

Think about strategies and properties when **dividing** by 1-digit numbers.

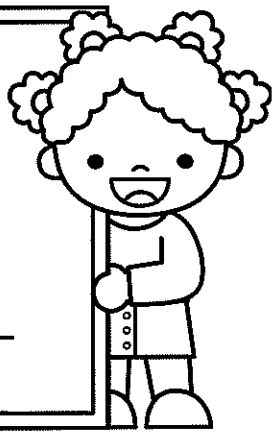
1. Solve all of the following:

30 ÷ 6 = _____

300 ÷ 6 = _____

3,000 ÷ 6 = _____

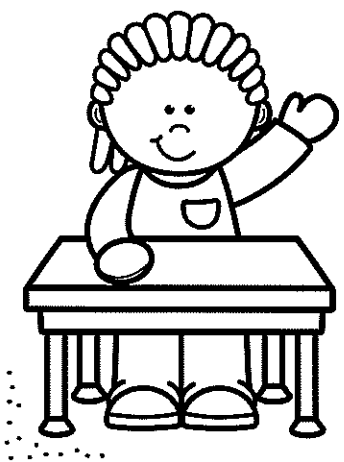
2. Use **basic facts** to help you divide mentally.



3,200 ÷ 8 = _____ 630 ÷ 7 = _____

400 ÷ 5 = _____ 2,400 ÷ 4 = _____

3. Round numbers to **estimate** each quotient.



354 ÷ 3 = _____

4,621 ÷ 9 = _____

1,832 ÷ 2 = _____

4. This year's toy drive collected **242** toys to be donated to children. Each child will be given **3** toys. *About* many children will receive gifts this year?

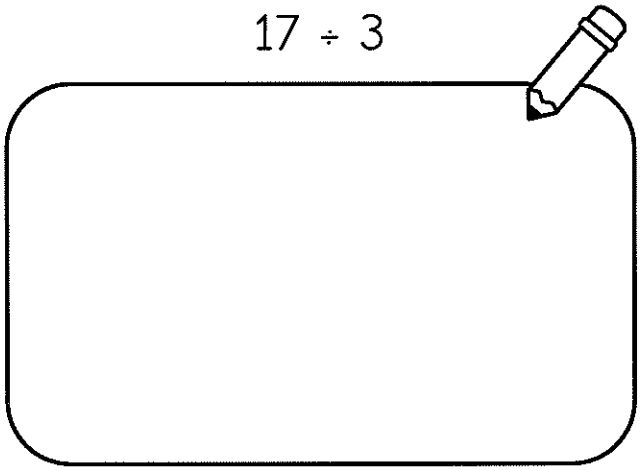
About _____

5. Select all of the equations that are *reasonable* **estimates** for 246 ÷ 6.

- ☐ 240 ÷ 6 = 40
- ☐ 200 ÷ 5 = 50
- ☐ 300 ÷ 5 = 60
- ☐ 240 ÷ 8 = 30
- ☐ 250 ÷ 5 = 50

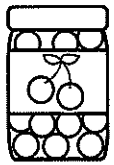
6. Find the number of **groups** and the number **leftover**. Draw an array to help.

17 ÷ 3



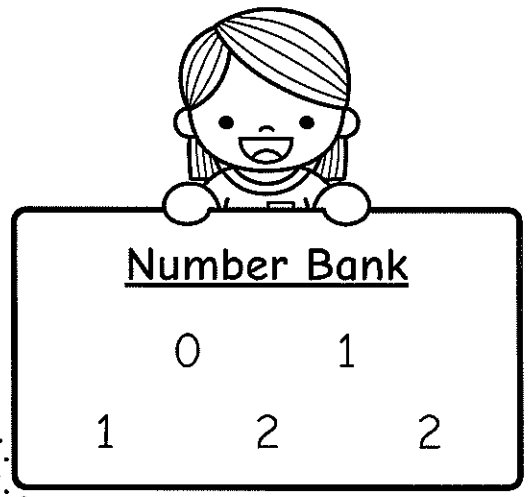
____ groups with ____ leftover

7. Ken has **67** cherries. He has **8** jars to split them between. How many cherries will <u>not</u> be placed in a jar?



_____ cherries

8. Use the **Number Bank** to fill in the missing numbers.



$$\begin{array}{r} 2\square \\ \square 0 \\ \hline 6\overline{)72} \\ -\ 6\square \\ \hline 12 \\ -\ 1\square \\ \hline 0 \end{array} \quad > \square\square$$

9. Use partial quotients to divide. Draw a model if needed.

582 ÷ 3 = _____

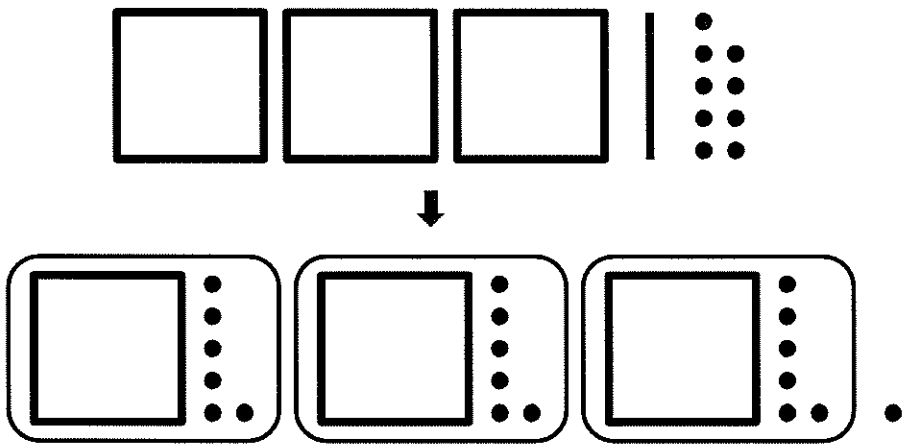
10. Which expressions have a **remainder of 5**? Choose all that do.

- ☐ 203 ÷ 5 = 40 R____
- ☐ 45 ÷ 8 = 5 R____
- ☐ 29 ÷ 9 = 3 R____
- ☐ 101 ÷ 6 = 16 R____

11. **A.** Solve 288 ÷ 8 = _____

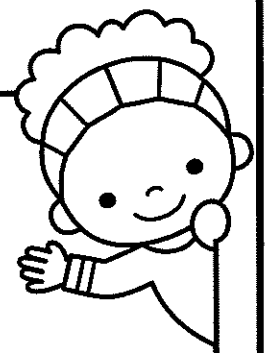
B. Use multiplication or an estimation to check:

12. Look at the drawing. Write the division **equation** that is represented by it. Include a remainder if needed.



_____ ÷ _____ = _____

13. Draw a picture or model to explain why 635 ÷ 6 = 104 R1



14. What is the best **estimate** for 4,700 ÷ 6

- ○ 700
- ○ 800
- ○ 900
- ○ 600

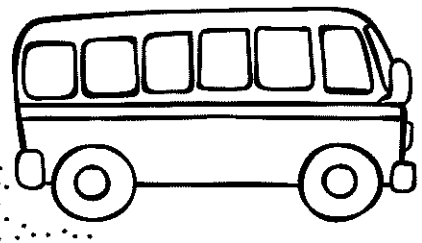
15. Choose a strategy to solve.

3,216 ÷ 8 = _____

16. Which is **NOT** equivalent to 63 ÷ 3?

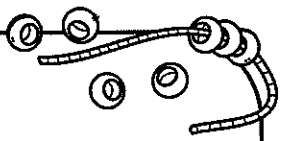
- ○ (60 ÷ 3) + (3 ÷ 3)
- ○ (60 + 3) ÷ 3
- ○ (33 ÷ 3) + (30 ÷ 3)
- ○ (60 ÷ 3) + 3

17. There are **496** tourists signed up for a bus tour to the Grand Canyon. The tourists are split up evenly between **8** buses. How many tourists are on each bus?



_____ tourists

18. Kayla made bracelets for her friends. She had **340** beads. She split the beads between the **8** bracelets she made. How many extra beads did Kayla have when she finished?



Kayla had _____ extra beads.

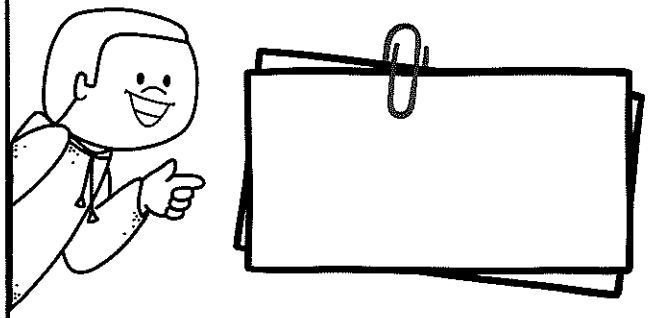
Name: _____ Date: _____

TOPIC 6
Review

Use what you have learned about **operations** to solve problems.

1. Write an equation to match this **comparison** and solve.

k is 4 times as many as 7.



2. Complete each statement using the correct phrase:

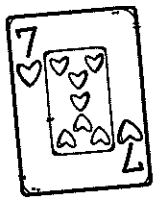
times as many as **more than**

20 is 5 _____ 15.

72 is 9 _____ 8.

36 is 6 _____ 6.

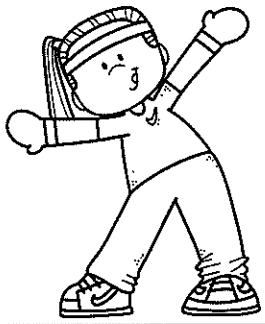
3. Sal has **16** playing cards. Carol has **12** more cards than Sal. Let *c* represent the number of cards Carol has. Complete the comparison and find the value of the variable to make it true.



_____ more than _____ is *c*.

c = _____

4. Amy exercised for **42** minutes. Penny exercised for **7** minutes. How many times as many minutes did Amy exercise than Penny? Use a multiplication fact or a related division fact to solve.



○ 4 times ○ 5 times

○ 6 times ○ 7 times

5. A school is planning a 4th Grade field trip to a dinosaur museum. Museum tickets cost **$8** per student and **2 times** as much for adults (teachers and chaperones). There will be 90 students and 12 adults attending the trip. What will the <u>total cost</u> be?

A. List the hidden questions:

B. Write equations and solve each hidden question:

C. Solve the original question: What will the <u>total cost</u> be?

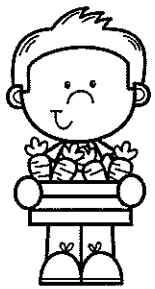
$ _____

6. Linda had **$190** to spend on winter clothes. She bought 4 pairs of gloves for **$13** each. She also bought 2 pairs of snow boots for **$66** each. How much money, *m*, did Linda have <u>left</u>? Which equations could be used to solve the question?

- ☐ $190 - (4 x $13) - (2 x $66) = m
- ☐ (4 x $13) - (2 x $66) - $190 = m
- ☐ $190 - (2 x $66) - (4 x $13) = m
- ☐ $190 - (2 x 4) - ($13 + $66) = m

7. Joseph harvested the crops from his farm. He made a list of what he collected. Next month, he wants to grow <u>double</u> the amount of vegetables. Fill in the blanks to make the statements true.

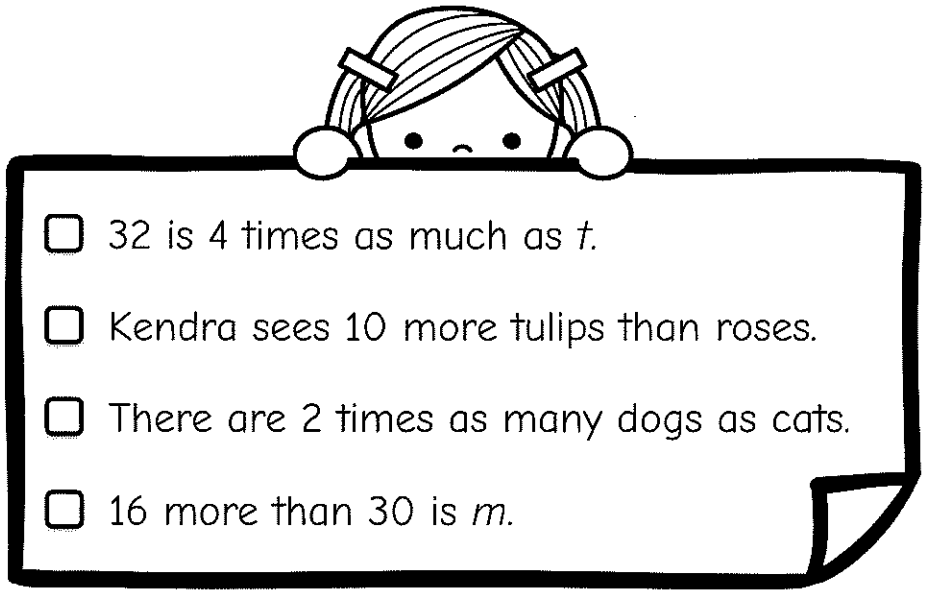
Carrots	Onions	Lettuce
3 boxes with 12 in each	5 boxes with 20 in each	4 boxes with 8 in each



This month, Joseph collected _____ vegetables.

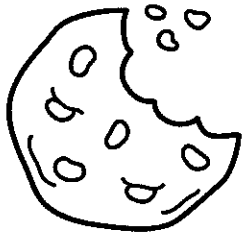
Next month, Joseph will want _____ vegetables.

8. Select all of the sentences that describe a comparison using **multiplication**.



- ☐ 32 is 4 times as much as t.
- ☐ Kendra sees 10 more tulips than roses.
- ☐ There are 2 times as many dogs as cats.
- ☐ 16 more than 30 is m.

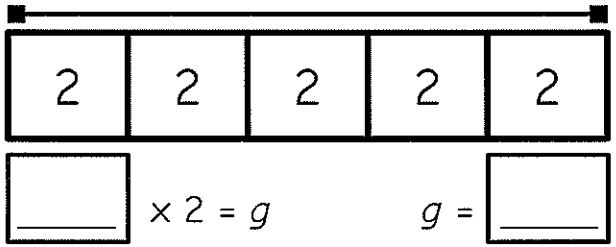
9. Jackie ordered **3** boxes of oatmeal cookies and **5** boxes of chocolate chip cookies for a party. She ordered a total of **64** cookies. How many cookies are in <u>each</u> box?



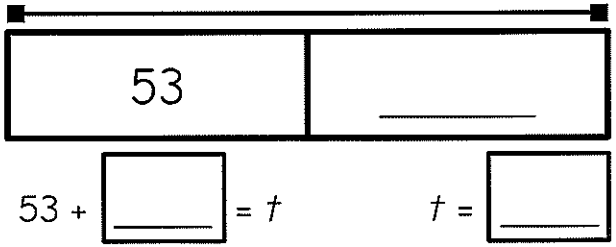
- ○ 7 cookies
- ○ 8 cookies
- ○ 9 cookies
- ○ 10 cookies

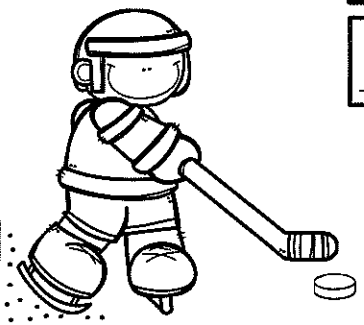
10. Collin wants to beat the record for the most goals in a hockey season. This season, he has scored **53** goals. If he scores **2** goals at *each* game in the next **5** games, he will break the record by 1 goal! How many <u>total</u> goals will he need to break the record? Complete the bar diagrams and solve.

g = goals needed



t = total goals





Collin will break the record by 1 goal if he scores a total of _____ goals.

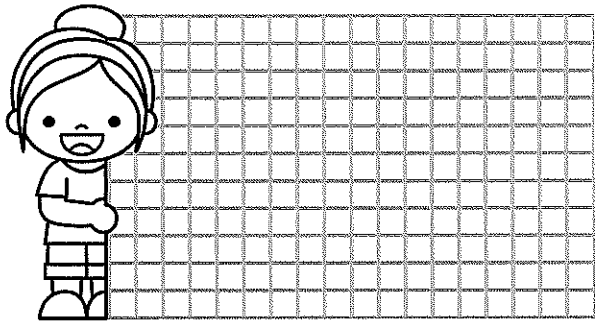
Name: _____ Date: _____

TOPIC 7
Review

Use what you have learned about **factors** and **multiples** to solve problems.

1. Use the grid paper to find factor pairs for **6**.

____ and ____ ____ and ____



2. Find factor pairs for **34**. Show your thinking.

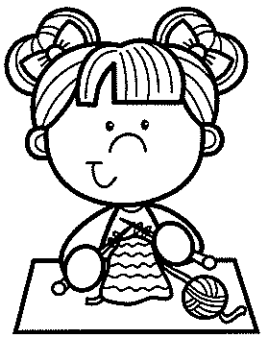
3. There are **26** cards. Ken wants to arrange them in an **array**. Which shows the ways the cards could be arranged?

- ○ 1 x 2 and 6 x 2
- ○ 26 x 2 and 1 x 6
- ○ 2 x 26 and 1 x 13
- ○ 1 x 26 and 2 x 13

4. Write the factors for the number **18**. Draw counter groups if needed.

Factors: _____

5. Leah has **84** patches to sew together into a <u>rectangular</u> quilt. What are the different ways Leah can sew the patches together? List all of the possible arrays Leah can make.



6. Martin is hosting a party. He wrote out **60** place cards with his guests' names and table numbers on them. He wants to arrange them into an **array** on a table, but he does not want more than 20 place cards in one row or column. What type of arrays can he make using all of the place cards?

A. How many **factors** does 60 have? Write them all down.

B. List the **factor pairs** Martin can make an array with:

Lucy
Table #1

Factor Pairs:

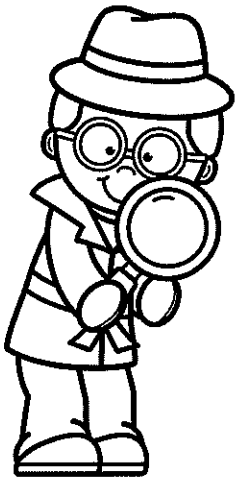
C. Is 60 **prime or composite**? Explain.

7. Use drawings or equations to determine if each number is **prime or composite**.

97

32

8. Find all the **true** statements below about the number 3:

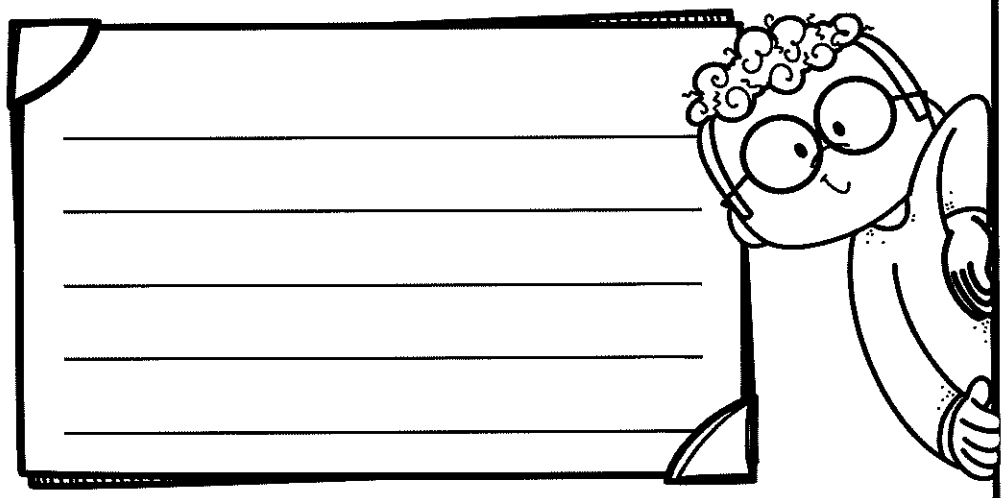


- ☐ 3 is a prime number.
- ☐ 13 is a multiple of 3.
- ☐ 36 is a multiple of 3.
- ☐ The only factors of 3 are 1 and 3.
- ☐ 3 is a factor of 23, 33, and 43.

9. Choose whether the numbers on the left are **factors or multiples** of the number 8.

	Factors	Multiples
8, 16, 24	☐	☐
2, 4	☐	☐
80, 88	☐	☐
1, 8	☐	☐

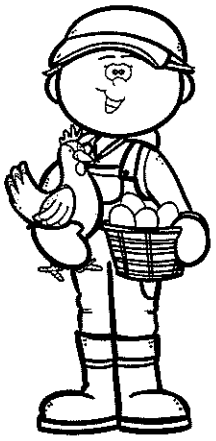
10. Jonathan says all numbers are factors AND multiples of themselves. Is he correct? Give an example to prove that Jonathan's statement is true.



11. Find the <u>one</u> true statement from the sentences below:

- ○ The only factors of 19 are 19 and 1; therefore, 19 is composite.
- ○ The only factors of 8 are 8 and 1; therefore, 8 is composite.
- ○ The only factors of 13 are 13 and 1; therefore, 13 is prime.
- ○ The only factors of 24 are 24 and 1; therefore, 24 is prime.

12. Berry Ridge Farms sells eggs in **packs of 6**. A chef needs <u>between 28 and 40</u> eggs to cook with. Fill in the blanks to show two numbers between 28 and 40 that are multiples of **6**. *Show your thinking* in the space provided.



Two multiples of 6 that are between 28 and 40 are _____ and _____.

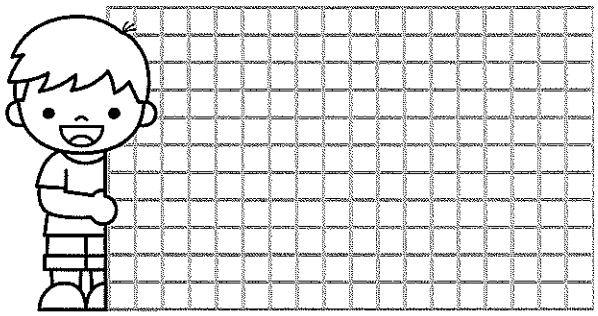
Name: _____ Date: _____

TOPIC 7
Quiz

Use what you have learned about **factors** and **multiples** to solve problems.

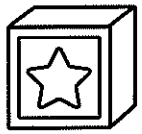
1. Use the grid paper to find factor pairs for **8**.

____ and ____ ____ and ____



2. Find factor pairs for **15**. Show your thinking.

3. There are **34** blocks. Deb wants to arrange them in an **array**. Which shows the ways the blocks could be arranged?



- ○ 1 x 34 and 2 x 17
- ○ 3 x 4 and 4 x 3
- ○ 17 x 1 and 34 x 2
- ○ 14 x 3 and 17 x 4

4. Write the factors for the number **12**. Draw counter groups if needed.

Factors: _____

5. Ricky has to arrange **48** flash cards into a <u>rectangular</u> array. What are the different ways he can arrange the cards? List all of the possible arrays Ricky can make.

6. Devin is starting a baseball card collection. He has **76** cards. He wants to arrange them into an **array** on the table so he can look at them all at once, but he does not want more than 40 cards in one row or column. What type of arrays can he make using all of the baseball cards?

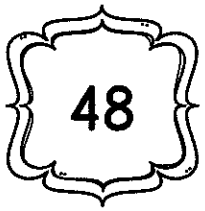
A. How many **factors** does 76 have? Write them all down.

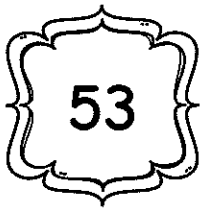
B. List the **factor pairs** Devin can make an array with:

Factor Pairs:

C. Is 76 **prime or composite**? Explain.

7. Use drawings or equations to determine if each number is **prime or composite**.





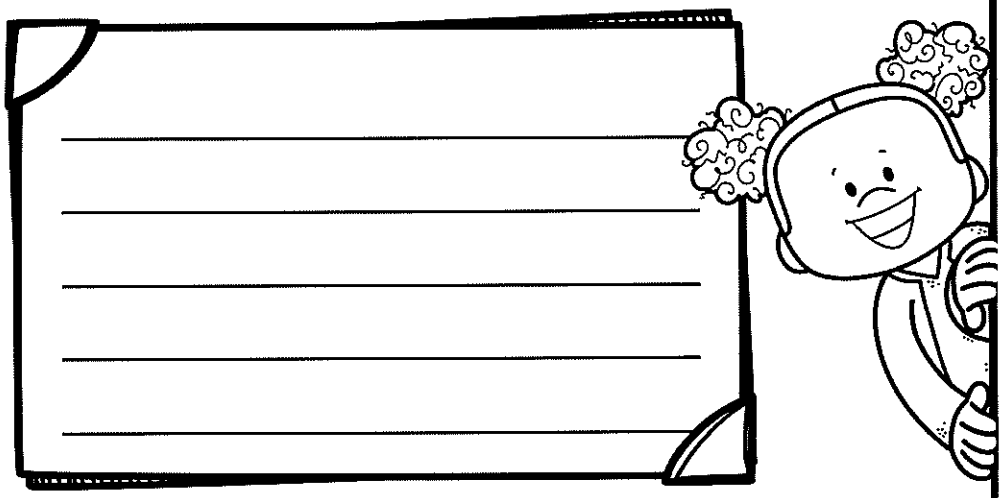
8. Find all the **true** statements below about the number 6:

- ☐ The only factors of 6 are 1 and 6.
- ☐ 36 is a multiple of 6.
- ☐ 6 is a prime number.
- ☐ 6 is a factor of 18, 24, and 30.
- ☐ 16 is a multiple of 6.

9. Choose whether the numbers on the left are **factors or multiples** of the number 10.

	Factors	Multiples
2, 5	☐	☐
10, 20, 30	☐	☐
90, 100	☐	☐
1, 10	☐	☐

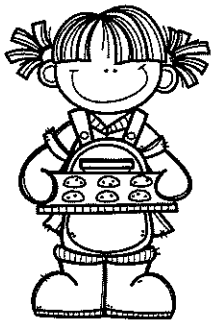
10. Layla says factors and multiples have no relation to one another. Is she correct? Give an example to prove that Layla's statement is not true.



11. Find the <u>one</u> true statement from the sentences below:

- ○ The only factors of 19 are 19 and 1; therefore, 19 is prime.
- ○ The only factors of 6 are 6 and 1; therefore, 6 is composite.
- ○ The only factors of 28 are 28 and 1; therefore, 28 is prime.
- ○ The only factors of 7 are 7 and 1; therefore, 7 is composite.

12. Beth's Bakery sells cookies by the dozen **(packs of 12)**. Mina needs <u>between 50 and 80</u> cookies for a holiday party. Fill in the blanks to show two numbers between 50 and 80 that are multiples of **12**. *Show your thinking* in the space provided.



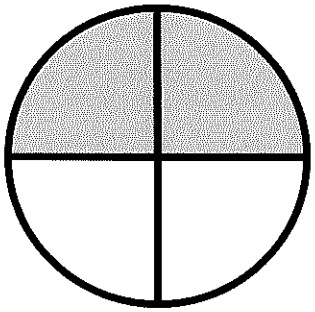
Two multiples of 12 that are between 50 and 80 are _____ and _____.

Name: _____ Date: _____

TOPIC 8
Review

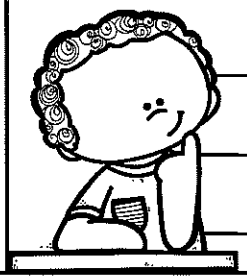
Use what you have learned about **fraction equivalence** and **ordering** to solve problems.

1. What is <u>one</u> fraction that is **equivalent** to $\frac{2}{4}$?

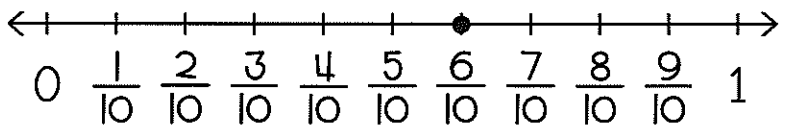


$\frac{2}{4} = \frac{\square}{\square}$

2. Peter needs to find an **equivalent fraction** for $\frac{3}{8}$. Explain how he can use <u>multiplication</u> to do this.



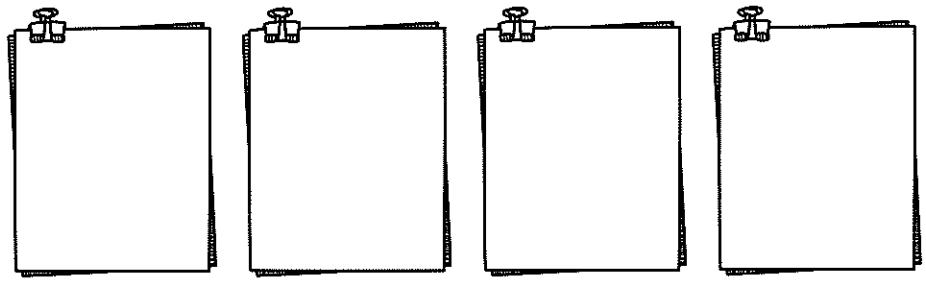
3. Hilary found a fraction **equivalent** to the one on the number line. Which fraction is it?



- ○ $\frac{3}{5}$ because $\frac{6}{10} \div \frac{2}{2} = \frac{3}{5}$
- ○ $\frac{1}{2}$ because $\frac{6}{10} \div \frac{5}{5} = \frac{1}{2}$
- ○ $\frac{4}{8}$ because $\frac{6}{10} - \frac{2}{2} = \frac{4}{8}$
- ○ $\frac{10}{10}$ because $\frac{6}{10} + \frac{4}{10} = \frac{10}{10}$

4. Put the fractions in order from **least to greatest**.

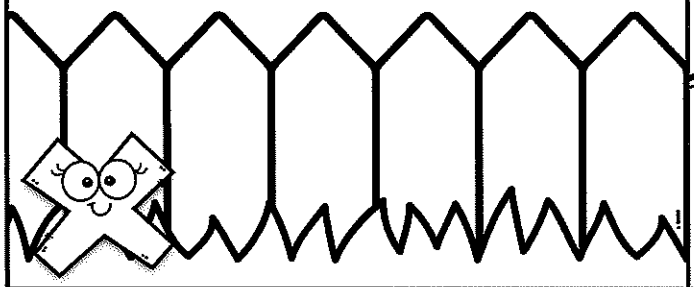
$\frac{1}{2}$ $\frac{4}{5}$ $\frac{1}{8}$ $\frac{4}{6}$



Least Greatest

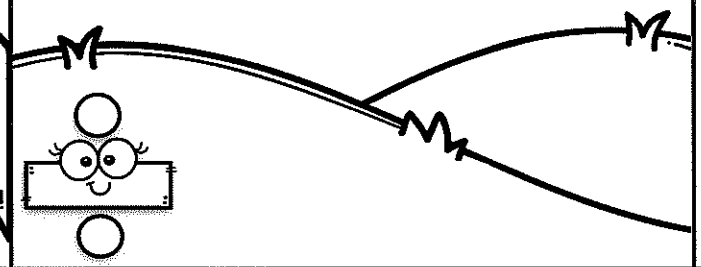
5. Multiply to find **equivalent** fractions.

$\frac{6}{8} = \frac{\square}{16}$ $\frac{2}{4} = \frac{10}{\square}$

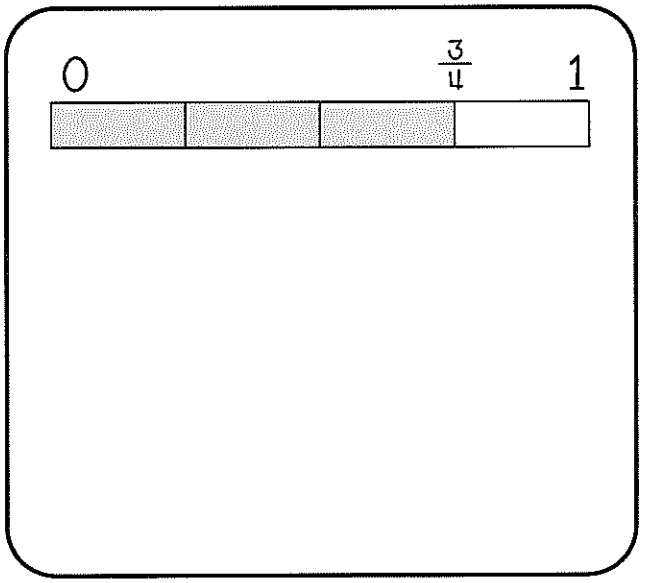


6. Divide to find **equivalent** fractions.

$\frac{8}{12} = \frac{4}{\square}$ $\frac{6}{9} = \frac{\square}{3}$



7. Use $\frac{3}{4}$ as a **benchmark** to compare $\frac{2}{8}$ and $\frac{5}{12}$.

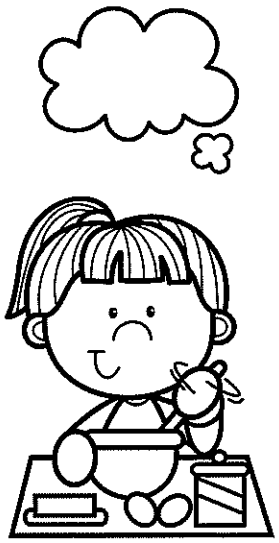


8. Use benchmark fractions or another strategy to **compare**. Write >, <, or = in each circle.

$\frac{5}{6} \bigcirc \frac{7}{12}$ $\frac{1}{4} \bigcirc \frac{3}{10}$ $\frac{1}{3} \bigcirc \frac{4}{12}$

$\frac{4}{10} \bigcirc \frac{2}{5}$ $\frac{2}{3} \bigcirc \frac{3}{4}$ $\frac{1}{2} \bigcirc \frac{3}{8}$

9. Patty is baking a cake. She is thinking of using less than $\frac{1}{3}$ cup of oil in the recipe. How much oil might Patty use? Explain.

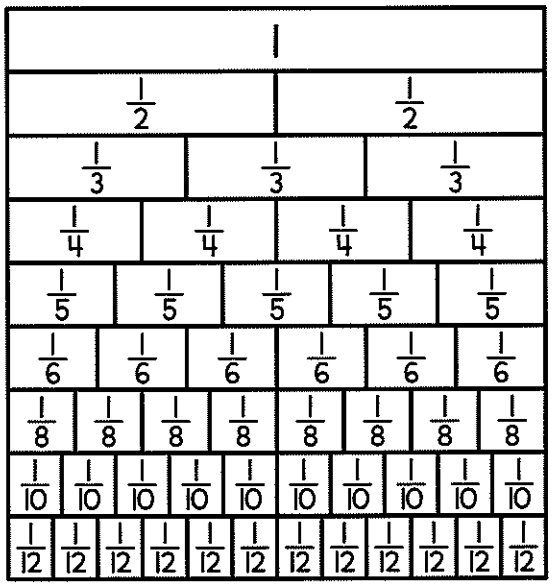


10. Compare the fractions to $\frac{1}{2}$. Write each fraction in the answer space it belongs.

LESS	EQUAL TO $\frac{1}{2}$	GREATER

$\frac{5}{10}$ $\frac{1}{8}$ $\frac{3}{4}$ $\frac{8}{10}$ $\frac{6}{12}$ $\frac{2}{6}$

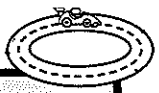
11. Gregory is using a fraction wall to compare numbers. Which statement is NOT true.



- ○ $\frac{1}{2} > \frac{5}{12}$
- ○ $\frac{2}{3} > \frac{3}{4}$
- ○ $\frac{3}{4} < \frac{10}{12}$
- ○ $\frac{2}{3} = \frac{8}{12}$

12. Derek and Ethan built towers made out of blocks. They are both $\frac{3}{5}$ of the way done with their towers, but Ethan's is bigger. How is this possible? Use words and/or pictures to explain.

13. The chart shows each race car's distance during their first lap around a track.



CAR 1	CAR 2	CAR 3	CAR 4
$\frac{4}{12}$	$\frac{3}{6}$	$\frac{1}{3}$	$\frac{5}{12}$

(Circle) the car that went the **farthest** distance.

Name the two cars that went the **same** distance:

_____ _____

Name: _____ Date: _____

TOPIC 9
Review

Use what you have learned about adding and subtracting **fractions** to solve problems.

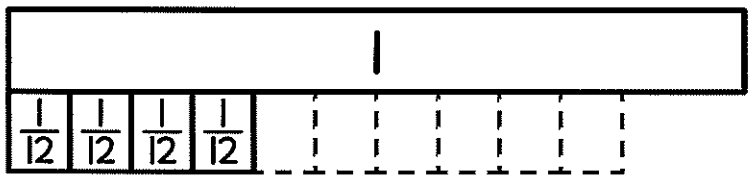
1. Match each expression on the left to an **equivalent** expression on the right.

$\frac{3}{8} + \frac{2}{8}$	$\frac{4}{8} + \frac{1}{8}$
$\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$	$\frac{3}{8} + \frac{1}{8} + \frac{3}{8}$
$\frac{1}{8} + \frac{3}{8}$	$\frac{1}{8} + \frac{2}{8}$
$\frac{4}{8} + \frac{2}{8} + \frac{1}{8}$	$\frac{2}{8} + \frac{2}{8}$

2. Select all the expressions that show a way to **decompose** $\frac{7}{10}$.

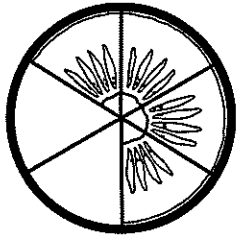
- ☐ $\frac{3}{5} + \frac{4}{5}$
- ☐ $\frac{2}{10} + \frac{2}{10} + \frac{2}{10} + \frac{1}{10}$
- ☐ $\frac{1}{10} + \frac{1}{10} + \frac{5}{10}$
- ☐ $\frac{4}{10} + \frac{3}{10}$

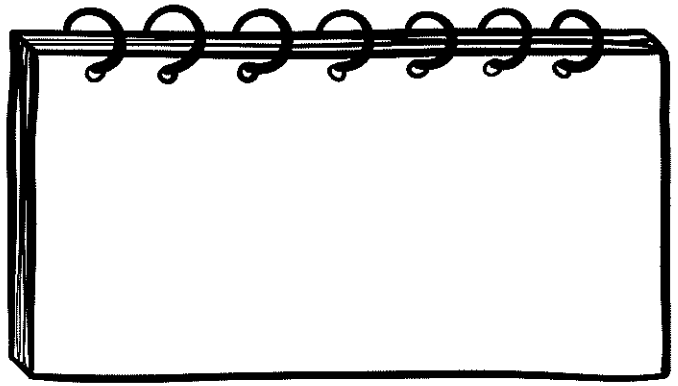
3. Jake listened to $\frac{4}{12}$ of an album. The next day, he listened to $\frac{6}{12}$ more. How much of the album has Jake listened to now?



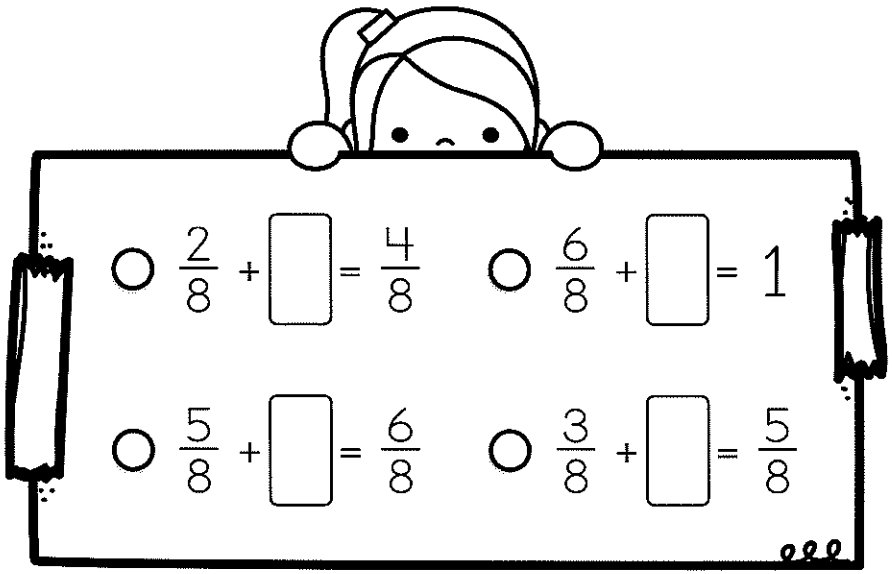
Jake has listened to _____ of the album.

4. Hector is cutting fruit for a fruit salad. He divided a kiwi into **6** equal pieces. He ate *some* of the pieces, but he still has $\frac{4}{6}$ of the kiwi left. What fraction of the kiwi did he eat? Explain.



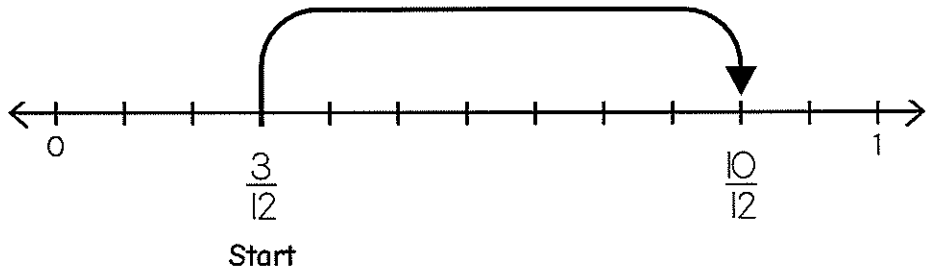


5. Which equation is **NOT** true when $\frac{2}{8}$ is the missing number?



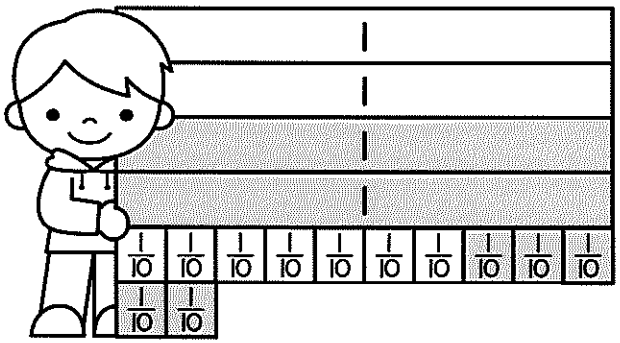
- $\frac{2}{8} + \square = \frac{4}{8}$
- $\frac{6}{8} + \square = 1$
- $\frac{5}{8} + \square = \frac{6}{8}$
- $\frac{3}{8} + \square = \frac{5}{8}$

6. Choose the equation that is shown by this number line. Pay attention to the "start".



- $\frac{7}{12} - \frac{3}{12} = \frac{4}{12}$
- $\frac{3}{12} + \frac{7}{12} = \frac{10}{12}$
- $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$
- $\frac{3}{12} + \frac{10}{12} = \frac{13}{12}$

7. Ben used fraction strips to add together the mixed numbers $2\frac{7}{10}$ and $2\frac{5}{10}$. Record the sum <u>two</u> different ways. HINT: Think of mixed numbers and improper fractions.



One way:

_____

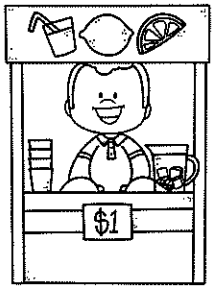
Another way:

_____

8. Kristen needs $1\frac{3}{4}$ cups of water to water her daisies and $2\frac{2}{4}$ cups of water to water her lilies. How much water does Kristen need <u>in all</u>? Show your work.

Kristen needs _____ cups in all.

9. Mike made enough lemonade to fill $5\frac{4}{8}$ pitchers. After a day of selling lemonade, Mike only had $1\frac{1}{8}$ pitchers left. How much lemonade did Mike sell? Show your work.



Mike sold _____ pitchers of lemonade.

10. Add or subtract fractions to find the **sum** or **difference**. Write the answer as a fraction or mixed number.

$\frac{4}{10} + \frac{8}{10} =$ $\frac{6}{4} - \frac{3}{4} =$

$\frac{1}{8} + \frac{5}{8} =$ $\frac{6}{6} - \frac{2}{6} =$

$\frac{9}{12} + \frac{5}{12} =$ $\frac{7}{5} - \frac{1}{5} =$

11. Meg and Ken each decomposed $1\frac{1}{3}$. Meg wrote: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ while Ken wrote: $\frac{3}{3} + \frac{1}{3}$. Who was correct? Explain.

12. Vicky is having an ice cream sundae bar at her birthday party. How many more cups of fruit and candy are there than sprinkles? Use the chart. Draw a **bar diagram** and write an equation to solve.

Ice Cream Sundae Toppings			
	Fruit	Candy	Sprinkles
Cups	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{3}{4}$

There are _____ more cups of fruit and candy.

Name: _____ Date: _____

TOPIC 10
Review

Use what you have learned about **fractions** and **multiplication** concepts to solve problems.

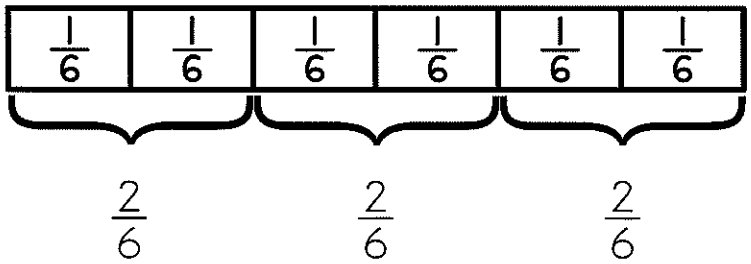
1. Which answer choice represents the fraction $\frac{8}{6}$ as a multiple of a unit fraction?

- ○ $\frac{8}{6} = 4 \times \frac{4}{6}$
- ○ $\frac{8}{6} = 8 \times \frac{1}{6}$
- ○ $\frac{8}{6} = 1 \times \frac{8}{6}$
- ○ $\frac{8}{6} = 6 \times \frac{1}{8}$

2. Write a multiplication equation equal to $\frac{3}{12}$ by using a whole number and a unit fraction.

3. Calculate the distance Ron runs if he runs $\frac{4}{10}$ miles each day for 5 days.

4. Complete the multiplication equation to match the model.



$$3 \times \frac{\square}{6} = 6 \times \frac{\square}{6}$$

5. Mel is using $\frac{4}{5}$ quarts of paint for one wall in her square living room. If she paints all 4 walls, how much paint will she use? Select all the equations that can be used to find q, the total amount of quarts needed.

- ☐ $q = 4 \times \frac{4}{5}$
- ☐ $q = 4 \times 5$
- ☐ $q = 4 + \frac{4}{5}$
- ☐ $q = \frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5}$

6. Match each expression with its product.

$6 \times \frac{4}{8}$	$1\frac{4}{12}$
$3 \times \frac{2}{6}$	3
$2 \times \frac{8}{12}$	1

7. Timmy can fit $\frac{5}{8}$ scoops of dog food in each bowl. How many scoops can he fit in 3 bowls?

1 week = 7 days

Use units of time to answer Questions 8 and 9.

1 hour = 60 minutes

8. Cindy spends $\frac{3}{4}$ hour each day reading. How many hours does she read in a <u>week</u>?

9. Fiona played soccer for **1 hour 35 minutes**. Later, she played volleyball for **1 hour 46 minutes**. How much time did Fiona spend playing sports?

10. Hector uses $\frac{6}{8}$ bag of potato chips and $\frac{3}{8}$ bag of barbeque chips to make 1 portion of his salty snack mix. Hector is inviting friends over to watch a football game, so he plans to make 6 portions. How many bags of chips will Hector use for all 6 portions of his salty snack mix?