5th Grade Math

Week of December 7 - December 11, 2020

Name _____

* Please do not complete until advised by teacher*

December 7, 2020

McKenna has 34 stuffed animals. Kenley has twice as many as McKenna. How many stuffed animals do the two girls have in all?

Answer (with unit): _____

Equation that matches your work:

Explain your thinking:

Name _____

Topic 5
Assessment
Review

1. Select all of the following equations the number 50 will make true.

- ☐ 2,000 ÷ ☐ = 40
- ☐ 350 ÷ ☐ = 70
- ☐ 1,000 ÷ ☐ = 200
- ☐ 4,500 ÷ ☐ = 90
- ☐ 500 ÷ ☐ = 5

2. Which of the following is the best estimate of 756 ÷ 28?

- Ⓐ 30
- Ⓑ 35
- Ⓒ 40
- Ⓓ 45

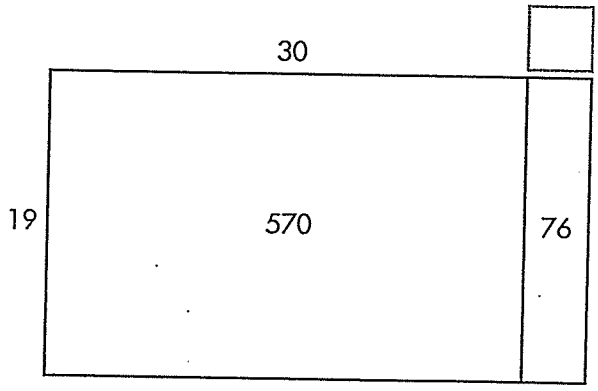
3. A factory makes 718 toy trains in one day. The toy trains are placed in boxes of 30.

A. In what place will the first digit of the quotient be?

B. How many boxes will be filled?

C. How many toy trains will be left over?

4. A rectangular field has an area of 646 square feet. The width of the field is 19 feet.



Write a number in the box to show the missing measurement.

What is the length of the field?

_____ feet

5. A. Divide.

8,400 ÷ 40 = _____

B. Select all of the expressions that are equal to 8,400 ÷ 40.

- ☐ 8,400 ÷ 4
- ☐ 8,400 ÷ 4 tens
- ☐ 84 hundreds ÷ 4 tens
- ☐ 84 ÷ 4
- ☐ 84,000 tens ÷ 4 tens

6. Choose the correct quotient for each expression.

	900	9	90	150
4,500 ÷ 30	☐	☐	☐	☐
4,500 ÷ 5	☐	☐	☐	☐
450 ÷ 50	☐	☐	☐	☐
450 ÷ 5	☐	☐	☐	☐

7. Use the table.

Marco's Walking Goal: 475 Miles

Plan	Number of Miles Each Week	Number of Weeks Needed
A	10	48
B	20	24
C	30	

A. Using Plan C, how many weeks will it take Marco to reach his walking goal? Write the missing number in the table.

B. Show how you found your answer to **A**.

8. A bakery will make 5,400 graham crackers. The graham crackers are packaged in boxes of 60. How many boxes of graham crackers will the bakery have?

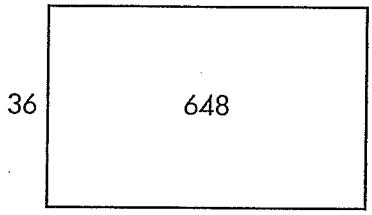
A. Identify which expression represents the problem.

Ⓐ $5{,}400 \div 10$ Ⓒ $60 \times 5{,}400$

Ⓑ $60 \div 5{,}400$ Ⓓ $5{,}400 \div 60$

B. How many boxes of graham crackers will the bakery have?

9. A water tank is filled at a constant rate. After 36 minutes, there are 648 gallons of water in the tank. How many gallons of water flowed into the tank each minute? Use the model.



10. Select all the expressions that have a value of 6.

- ☐ $132 \div 22$
- ☐ $240 \div 40$
- ☐ $480 \div 8$
- ☐ $102 \div 17$
- ☐ $260 \div 6$

11. Ashton wants to find $6{,}278 \div 43$.

A. Without doing the division, which number will the quotient be closest to?

Ⓐ 1

Ⓑ 10

Ⓒ 100

Ⓓ 1,000

B. What is the exact quotient?

12. A candidate for mayor is calling 882 registered voters to remind them about the upcoming election. If the candidate has 49 volunteers and each person calls the same number of voters, how many voters will each volunteer call?

A. Which of the following expressions represents the problem?

Ⓐ $882 + 49$ Ⓒ 882×49

Ⓑ $882 \div 49$ Ⓓ $882 \div 2$

B. How many voters will each volunteer call?

Ⓐ 20 voters Ⓒ 18 voters

Ⓑ 19 voters Ⓓ 17 voters

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13. A middle school needs buses to transport 579 students. If each bus carries 48 students, what is the least number of buses needed?

Ⓐ 12 buses Ⓒ 14 buses

Ⓑ 13 buses Ⓓ 15 buses

---

14. A load of bricks weighs 7,798 ounces. Each brick weighs 67 ounces. Explain how you can use compatible numbers to estimate the number of bricks in the load.

15. A theater holds 1,512 people. The 54 sections of the theater each have the same number of seats. Esther wants to find the number of seats in each section. Fill in the partial quotients that are missing from Esther's work below.

$$\begin{array}{r} \square \\ \square \\ 54\overline{)1{,}512} \\ -1{,}080 \\ \hline 432 \\ -432 \\ \hline 0 \end{array}$$

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16. A small business makes bottles of lemonade. Today, they have 528 ounces of lemonade to bottle. Each bottle holds 24 ounces of lemonade. They sell each bottle for $2.

A. Write two equations with variables that can be used to find how many dollars the business will receive by selling all of the bottles.

B. How many dollars will the business receive?

17. Select all of the following equations the number 70 will make true.

- ☐ $350 \div \square = 50$
- ☐ $42{,}000 \div \square = 600$
- ☐ $490 \div \square = 7$
- ☐ $5{,}600 \div \square = 800$
- ☐ $700 \div \square = 10$

18. Select the quotient for each expression.

	150	15	13	130
$650 \div 50$	☐	☐	☐	☐
$7{,}500 \div 50$	☐	☐	☐	☐
$6{,}500 \div 50$	☐	☐	☐	☐
$750 \div 50$	☐	☐	☐	☐

19. It will cost a total of $7,740 for 18 students to go to New York City for spring break. The cost for each student is the same. What is the cost for each student?

A. Identify which expression represents the problem.

Ⓐ $7{,}740 \div 18$ Ⓒ $7{,}740 - 18$

Ⓑ $7{,}740 \times 18$ Ⓓ $7{,}740 \div 10$

B. What is the cost for each student?

20. Find the quotient.

$684 \div 57$

21. Which partial quotients could be added to find $777 \div 21$?

Ⓐ 30 and 3

Ⓑ 30 and 7

Ⓒ 40 and 3

Ⓓ 40 and 10

22. The table shows the number of golf balls produced by a factory each day for a week. The golf balls are packed in boxes of 12.

Day	Golf Balls
Monday	215
Tuesday	153
Wednesday	349
Thursday	264
Friday	155

How many boxes of golf balls will the factory pack on Thursday?

December 8, 2020

Aria was having a birthday party for her friend. She ordered two pizzas for the party. Each pizza had 24 slices. When the party was over, 17 slices were left. How many slices of pizza were eaten at the party?

Answer (with unit): _____

Equation that matches your work:

Explain your thinking:

Test Title: envmath_5_04_OTT

Student Name:

Date :

Question 1a

A bottle of eye drops has 0.45 fluid ounces of liquid.

Part A

How much liquid is in 10^4 bottles of eye drops?

- O 4,500 fluid ounces
- O 450 fluid ounces
- O 0.0045 fluid ounce
- O 0.00045 fluid ounce

Question 1b

Part B

How does the decimal point move when 0.45 is multiplied by 10^4?

- O The decimal point moves two places to the left.
- O The decimal point moves two places to the right.
- O The decimal point moves four places to the left.
- O The decimal point moves four places to the right.

Question 2a

Jamal buys 33 bolts that cost $0.38 each.

Part A

Which equation represents the best estimate for the total cost of all of the bolts?

- ○ $0.30 × 30 = $9
- ○ $0.40 × 30 = $12
- ○ $0.50 × 30 = $15
- ○ $0.40 × 40 = $16

Question 2b

Part B

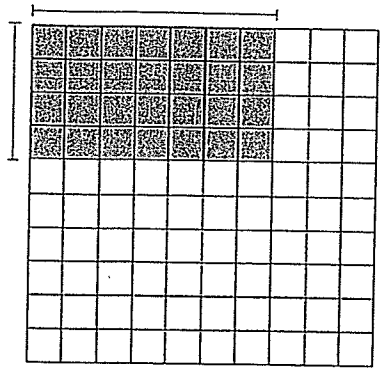
What is the actual total cost of all of the bolts? Enter your answer in the box.

$ [ ]

Question 3a

Part A

Which expression shows the area of the shaded part of the grid?



- ○ 0.04 × 0.07
- ○ 0.5 × 0.7
- ○ 0.4 × 0.7
- ○ 0.3 × 0.6

Question 3b

Part B

Evaluate the expression found in Part A. Enter your answer in the box.

[ ]

Question 4

Match each expression on the left to its product.

	7.2	0.072	72	0.72
8×0.09	☐	☐	☐	☐
0.8×0.09	☐	☐	☐	☐
80×0.9	☐	☐	☐	☐
8×0.9	☐	☐	☐	☐

Question 5

At the grocery store, peaches cost $2.60 per pound. Grace bought 36.8 ounces of peaches. There are 16 ounces in 1 pound. How much did Grace spend on peaches? Enter your answer in the box.

$ ☐

Question 6

Select all the expressions that are equal to 0.7×0.41.

- ☐ $\frac{7}{100} \times \frac{41}{100}$
- ☐ $\frac{7}{10} \times \frac{41}{100}$
- ☐ $\frac{41}{100} \times \frac{7}{10}$
- ☐ $\frac{41}{10} \times \frac{7}{10}$
- ☐ $\frac{70}{100} \times \frac{41}{100}$

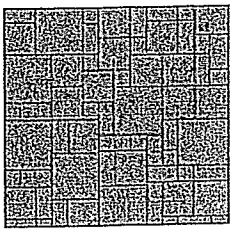
Question 7

Select each equation that the number 10^3 makes true.

- ☐ $6.01 \times \square = 601$
- ☐ $0.305 \times \square = 305$
- ☐ $0.54 \times \square = 540$
- ☐ $0.097 \times \square = 970$
- ☐ $0.97 \times \square = 97$

Question 8a

Rocio poured a square patio outside her back door. Each side measured 8.5 feet.



Part A

Which equation represents the perimeter, in feet, of Rocio's patio?

- ○ $8.5 + 8.5 = 17$
- ○ $2 \times 8.5 = 17$
- ○ $4 \times 8.5 = 34$
- ○ $8.5 \times 8.5 = 72.25$

Question 8b

Part B

Enter numbers in the boxes to show an equation that represents the area of Rocio's patio.

[ ] × [ ] = [ ] square feet

Question 9a

Part A

Match each expression on the left to its product.

	5.02	502	50.2	0.502
$50.2 \times \frac{1}{10^2}$	☐	☐	☐	☐
5.02×10^0	☐	☐	☐	☐
0.502×10^3	☐	☐	☐	☐
$502 \times \frac{1}{10}$	☐	☐	☐	☐

Question 9b

Part B

How does the decimal point move when 50.2 is multiplied by $\frac{1}{10^2}$?

- O The decimal point moves two places to the left.
- O The decimal point moves two places to the right.
- O The decimal point moves three places to the left.
- O The decimal point moves three places to the right.

Question 10

Select all the expressions that are equal to 0.8×0.03.

- ☐ $\frac{8}{100} \times \frac{3}{100}$
- ☐ $\frac{3}{100} \times \frac{8}{10}$
- ☐ $\frac{80}{100} \times \frac{3}{100}$
- ☐ $\frac{3}{10} \times \frac{80}{10}$
- ☐ $\frac{8}{10} \times \frac{3}{100}$

Question 11

One gallon of milk has 128 fluid ounces. How much milk is in 6.5 gallons? Enter your answer in the box.

[ ] fluid ounces

Question 12a

Emily bought seashells from the souvenir shop when she was on vacation. Each seashell cost $0.75.

Part A

Emily bought 10 seashells. What was the total cost of the seashells? Enter your answer in the box.

$ [ ]

Question 12b

Part B

Emily and her friends bought 100 seashells in all. What was the total cost of all of the seashells? Enter your answer in the box.

$ [ ]

Question 12c

Part C

Explain the pattern in the placement of the decimal point when multiplying 0.75 by 10 and by 100.

- O The decimal point moves one place to the right for every power of 10. So, it moves one place to the right when multiplying by 10 and two places to the right when multiplying by 100.
- O The decimal point moves two places to the left for every power of 10. So, it moves one place to the left when multiplying by 10 and two places to the left when multiplying by 100.
- O The decimal point moves one place to the right for every power of 10. So, it moves one place to the left when multiplying by 10 and two places to the left when multiplying by 100.
- O The decimal point moves one place to the right for every power of 10. So, it moves two places to the right when multiplying by 10 and one place to the right when multiplying by 100.

Question 13

Without doing the multiplication, match each expression on the left to its product. Use number sense to help you.

	11.584	20.224	34.037	6.012
5.12×3.95	☐	☐	☐	☐
9.05×1.28	☐	☐	☐	☐
6.74×5.05	☐	☐	☐	☐
8.35×0.72	☐	☐	☐	☐

Question 14a

Tim is laying ceramic tile on a kitchen floor. Each tile costs $3.19.

Part A

How much do 100 tiles cost?

Enter your answer in the box.

$ [ ]

Question 14b

Part B

How does the decimal point move when $3.19 is multiplied by 100?

- O The decimal point moves two places to the left.
- O The decimal point moves two places to the right.
- O The decimal point moves one place to the left.
- O The decimal point moves one place to the right.

Question 15

Select each equation that the decimal 0.43 makes true.

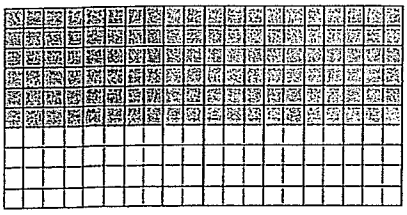
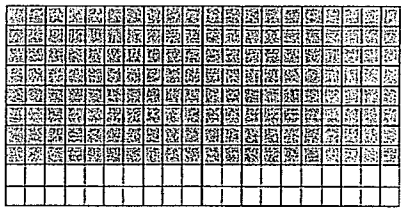
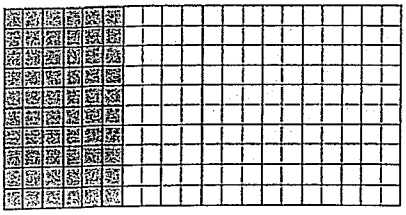
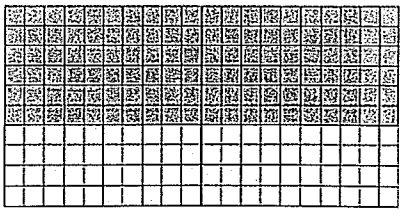
- ☐ $10^3 \times \square = 430$
- ☐ $10^1 \times \square = 4.3$
- ☐ $10^4 \times \square = 43{,}000$
- ☐ $10^2 \times \square = 4{,}300$
- ☐ $10^3 \times \square = 43$

Question 16a

Tara bought a 1.8-acre lot. She is going to have sod put on 0.6 of the lot.

Part A

Which grids show the correct shading to model the multiplication?

- ○ 
- ○ 
- ○ 
- ○ 

Question 16b

Part B

How much of Tara's lot will have sod? Enter your answer in the box.

[ ] acres

Question 16c

Part C

Explain how the model helps you find the product.

- O There are 60 small squares shaded in the overlapping part. Since each small square is ten, the product is 1.28.
- O There are 108 small squares shaded in the overlapping part. Since each small square is one-hundredth, the product is 1.08.
- O There are 100 small squares shaded in the overlapping part. Since each small square is one-hundredth, the product is 1.00.
- O There are 108 small squares shaded in the overlapping part. Since each small square is one-tenth, the product is 10.8.

Question 17

Each week as part of her workout, Monica walks 0.5 mile, runs 1.6 miles, and then walks 0.75 mile. How many total miles will Monica walk and run in a year? Reminder: there are 52 weeks in a year. Enter your answer in the box.

[ ] miles

Question 18a

Vaughn paints his porch floor and also the porch floors of 9 neighbors. Each floor is a rectangle that is 8.4 feet long and 6.9 feet wide.

Part A

Which equations represent the best estimate of the total area of all the porch floors that Vaughn paints?

- ○ $8 \times 6 = 48$; $48 \times 9 = 432$ square feet
- ○ $8 \times 7 = 56$; $56 \times 10 = 560$ square feet
- ○ $10 \times 7 = 70$; $70 \times 10 = 700$ square feet
- ○ $10 \times 10 = 100$; $100 \times 9 = 900$ square feet

Question 18b

Part B

What is the exact total area of all the porch floors that Vaughn paints? Enter your answer in the box.

[ ] square feet

Question 18c

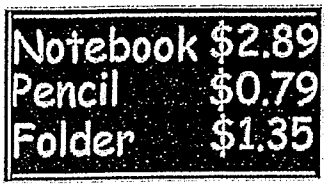
Part C

Compare the estimate to the exact answer. Explain whether your answer is reasonable.

- O The estimate is about 4 square feet from the actual number. So, the answer is reasonable.
- O The estimate is 89.64 square feet from the actual number. So, the answer is not reasonable.
- O The estimate is 19.6 square feet from the actual number. So, the answer is reasonable.
- O The estimate is 150.6 square feet from the actual number. So, the answer is not reasonable.

Question 19a

A school bookstore has the following items for sale.



Part A

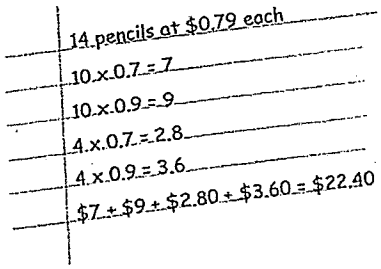
How much will Luke pay for 4 notebooks? Enter your answer in the box.

$ [ ]

Question 19b

Part B

Traci uses partial products to find the cost of 14 pencils.



Which explains whether or not Traci's partial products are correct?

- Traci's partial products are not correct. She should have multiplied 10 x 0.09 and 4 x 0.09. The actual cost is $11.06.
- Traci's partial products are not correct. She should have multiplied 10 x 0.07 and 4 x 0.07. The actual cost is $13.58.
- Traci's partial products are not correct. She should have multiplied 4 x 0.07 and 4 x 0.09. The actual cost is $16.64.
- Traci's partial products are correct. The actual cost is $22.40.

Question 20a

The area of a square tile is 1.56 square feet.

Part A

What is the area of a floor covered with 10^3 tiles?

Enter your answer in the box.

[ ] square feet

Question 20b

Part B

How many decimal places did 1.56 move to the right when multiplying by 10^3? Enter your answer in the box.

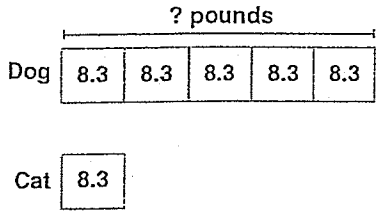
[ ] places

Question 21a

Jade's cat weighs 8.3 pounds. Her dog weighs 5 times as much as her cat.

Part A

Which expression represents the problem? Use the bar diagram to help.



- ○ 8.3×5
- ○ 8.3×1
- ○ $8.3 \div 5$
- ○ $8.3 \div 1$

Question 21b

Part B

What is the weight of Jade's dog?

Enter your answer in the box.

[ ] pounds

A

Correct _____

Round to the nearest whole number.

1	3.1 ≈		23	12.51 ≈	
2	3.2 ≈		24	16.61 ≈	
3	3.3 ≈		25	17.41 ≈	
4	3.4 ≈		26	11.51 ≈	
5	3.5 ≈		27	11.49 ≈	
6	3.6 ≈		28	13.49 ≈	
7	3.9 ≈		29	13.51 ≈	
8	13.9 ≈		30	15.51 ≈	
9	13.1 ≈		31	15.49 ≈	
10	13.5 ≈		32	6.3 ≈	
11	7.5 ≈		33	7.6 ≈	
12	8.5 ≈		34	49.5 ≈	
13	9.5 ≈		35	3.45 ≈	
14	19.5 ≈		36	17.46 ≈	
15	29.5 ≈		37	11.76 ≈	
16	89.5 ≈		38	5.2 ≈	
17	2.4 ≈		39	12.8 ≈	
18	2.41 ≈		40	59.5 ≈	
19	2.42 ≈		41	5.45 ≈	
20	2.45 ≈		42	19.47 ≈	
21	2.49 ≈		43	19.87 ≈	
22	2.51 ≈		44	69.51 ≈	

B Improvement _____ # Correct _____

Round to the nearest whole number.

1	4.1 ≈		23	13.51 ≈	
2	4.2 ≈		24	17.61 ≈	
3	4.3 ≈		25	18.41 ≈	
4	4.4 ≈		26	12.51 ≈	
5	4.5 ≈		27	12.49 ≈	
6	4.6 ≈		28	14.49 ≈	
7	4.9 ≈		29	14.51 ≈	
8	14.9 ≈		30	16.51 ≈	
9	14.1 ≈		31	16.49 ≈	
10	14.5 ≈		32	7.3 ≈	
11	7.5 ≈		33	8.6 ≈	
12	8.5 ≈		34	39.5 ≈	
13	9.5 ≈		35	4.45 ≈	
14	19.5 ≈		36	18.46 ≈	
15	29.5 ≈		37	12.76 ≈	
16	79.5 ≈		38	6.2 ≈	
17	3.4 ≈		39	13.8 ≈	
18	3.41 ≈		40	49.5 ≈	
19	3.42 ≈		41	6.45 ≈	
20	3.45 ≈		42	19.48 ≈	
21	3.49 ≈		43	19.78 ≈	
22	3.51 ≈		44	59.51 ≈	

December 9, 2020

Bryant, Brenda, and Jack went bowling together. Bryant's score was 55. Jack's score was exactly double Bryant's. Brenda had 13 fewer points than Jack. What was Brenda's score?

Answer (with unit): _____

Equation that matches your work:

Explain your thinking:

Wednesday, 12/9/20 Exit Ticket Lesson 5-1

Use mental math to find the missing numbers.

1. $5{,}400 \div 90 =$ _____

2. $54{,}000 \div$ _____ $= 900$

3. $49{,}000 \div 700 =$ _____

Name _____

Practice Video Tools Games

Additional Practice 5-1

Use Patterns and Mental Math to Divide

Another Look!

A school spends $12,000 on 20 new computers. Each computer costs the same amount. How much does each computer cost?

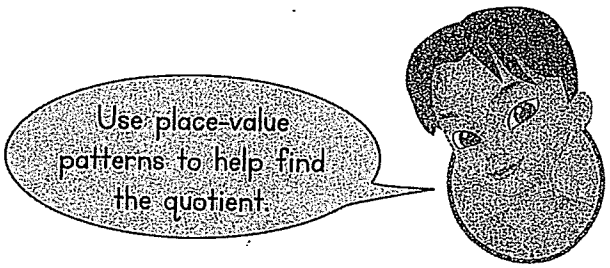
Find a basic fact, and then use patterns.

A basic fact that can be used for $12,000 \div 20$ is $12 \div 2 = 6$.

$120 \div 20 = 6$
$1{,}200 \div 20 = 60$
$12{,}000 \div 20 = 600$

Multiply to check: $600 \times 20 = 12{,}000$

Each computer costs $600.



Leveled Practice In **1–16**, use mental math to help solve.

1. $720 \div 90 = 72$ tens $\div 9$ tens $=$ ____

2. $4{,}800 \div 60 = 480$ tens $\div 6$ tens $=$ ____

3. $1{,}200 \div 30 =$ ____ tens $\div$ ____ tens $=$ ____

4. $25{,}000 \div 50 =$ ____ tens $\div$ ____ tens $=$ ____

5. $320 \div 40$

6. $9{,}000 \div 30$

7. $1{,}800 \div 90$

8. $2{,}000 \div 40$

9. $24{,}000 \div 80$

10. $32{,}000 \div 40$

11. $3{,}600 \div 90$

12. $40{,}000 \div 50$

13. $42{,}000 \div 60$

14. $5{,}400 \div 60$

15. $49{,}000 \div 70$

16. $56{,}000 \div 80$

December 10, 2020

Calvin paints pictures and sells them at art shows. He charges $56.25 for a large painting. He charges $25.80 for a small painting. Last month he sold three large paintings and two small paintings. How much did he make in all?

Answer (with unit): _____

Equation that matches your work:

Explain your thinking:

Thursday, 12/10/20 Exit Ticket Lesson 5-2

Estimate each quotient using rounding or compatible numbers.

1. $5,700 \div 58 =$

2. $7,200 \div 91 =$

3. $8,100 \div 43 =$

Name _____

Practice Video Tools Games

Additional Practice 5-2
Estimate Quotients with 2-Digit Divisors

Another Look!

Frog Trail is 1,976 meters long. Shondra walks 43 meters of the trail each minute. About how many minutes will it take Shondra to walk the trail?

Find compatible numbers. Think of a basic fact. Then use place-value patterns.

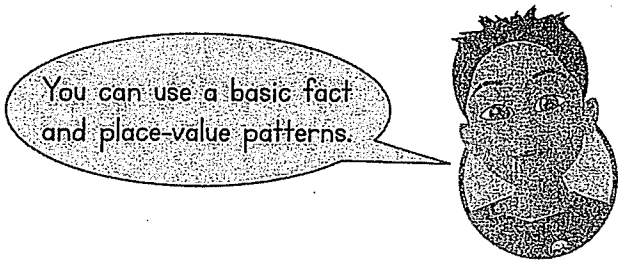
$1{,}976 \div 43$

$\downarrow \quad \downarrow$

$2{,}000 \div 40 = 50$

$2{,}000 \div 40 = 50$, so
$1{,}976 \div 43$ is about 50.

It would take Shondra about 50 minutes.



Leveled Practice In **1–3**, fill in the blanks to find the estimates.

1. $1{,}769 \div 23$

$\downarrow \quad \downarrow$

$1{,}800 \div \square = \square$

2. $516 \div 48$

$\downarrow \quad \downarrow$

$500 \div \square = \square$

3. $891 \div 32$

$\downarrow \quad \downarrow$

$\square \div \square = \square$

In **4–15**, estimate using compatible numbers.

4. $241 \div 34$

5. $705 \div 11$

6. $7{,}968 \div 22$

7. $5{,}624 \div 72$

8. $1{,}043 \div 23$

9. $986 \div 12$

10. $642 \div 94$

11. $4{,}870 \div 58$

12. $5{,}721 \div 79$

13. $148 \div 51$

14. $9{,}073 \div 11$

15. $3{,}514 \div 58$

December 11, 2020

BCCS-B was playing touch football against Henry Johnson. Touchdowns were worth 7 points. BCCS-B scored 7 touchdowns. Henry Johnson scored 5 touchdowns. How many more points did BCCS-B score than Henry Johnson?

Answer (with unit): _____

Equation that matches your work:

Explain your thinking:

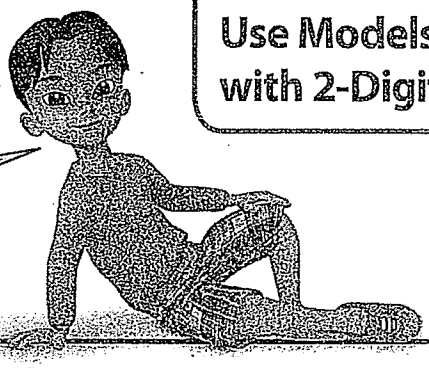
Name _____ Practice Video Tools Games

Additional Practice 5-3

Use Models to Divide with 2-Digit Divisors

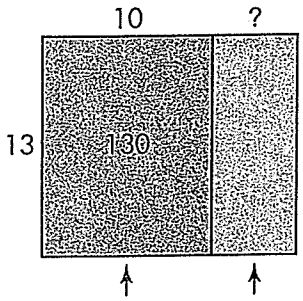
Another Look!

Hal's store just got a shipment of 195 cans of soup. Hal wants to divide the cans equally on 13 shelves. How many cans should he put on each shelf?



Step 1

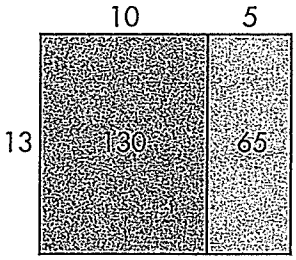
Divide the tens. Record.



$13 \times 10 = 130$ $195 - 130 = 65$

Step 2

Divide the ones. Record.



Multiply to check:

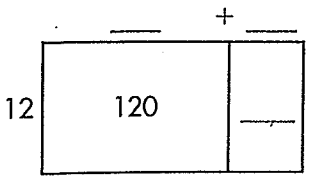
$13 \times 15 = 13 \times (10 + 5) = 130 + 65 = 195$

So $195 \div 13 = 15$

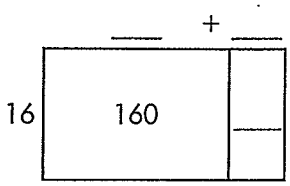
He should put 15 cans on each shelf.

In **1** and **2**, use the diagram to find each quotient.

1. $12\overline{)168}$



2. $16\overline{)208}$



In **3–8**, use grid paper or draw a picture to find each quotient.

3. $420 \div 14$

4. $385 \div 11$

5. $744 \div 24$

6. $675 \div 27$

7. $558 \div 18$

8. $228 \div 19$