Test Title: enVisionmath2.0 - Grade 3 - End of Year

Student Name :

Date :

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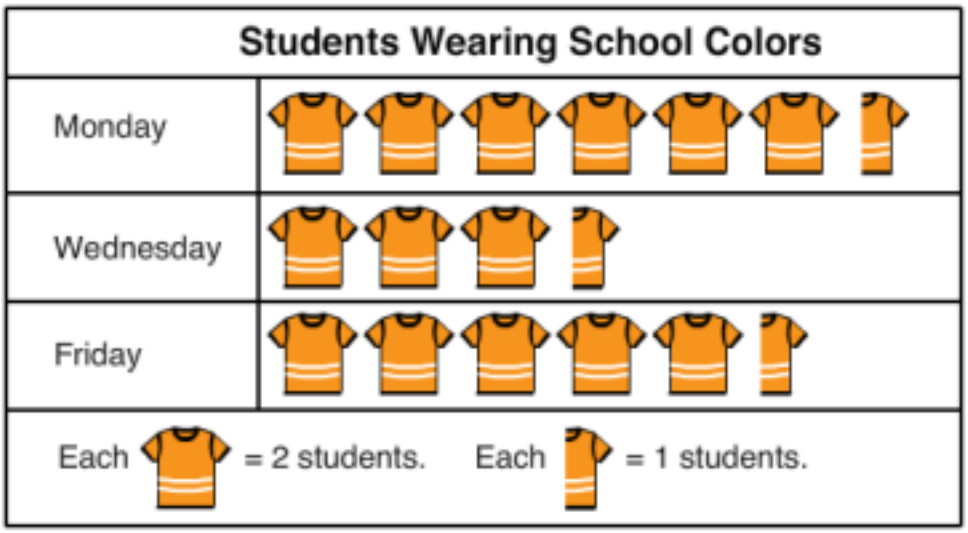
Mrs. Swan wrote 4 equations on the board.

Which equation shows the Associative Property of Multiplication?

- A. $3 \times 6 \times 1 = 3 \times 1$
- B. $3 \times 6 = (3 \times 2) + (3 \times 4)$
- C. $3 \times 6 = 6 \times 3$
- D. $(3 \times 6) \times 2 = 3 \times (6 \times 2)$

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The picture graph shows many students wore school colors.
On which day did 11 students wear school colors?



A. Monday

B. Wednesday

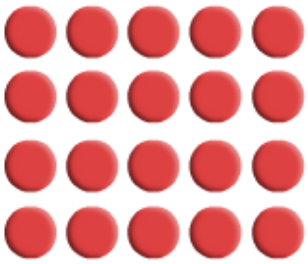
C. Friday

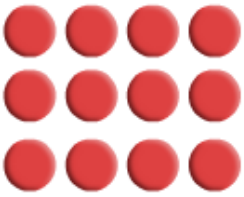
D. none

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Cody has 4 shelves in a book shelf. He places 5 books on each shelf.
What array shows this multiplication story?

A. 

B. 

C. 

D. 

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Brice is finding the sum of 468 and 241 by breaking it into smaller problems. He uses place value and finds the sums of the hundreds, tens, and ones. What is the sum of the tens? Enter your answer in the box.

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Compare $\frac{2}{6}$ and $\frac{5}{8}$ using benchmark numbers.

Part A

Which number can you use to compare these fractions?

- A. 0
- B. $\frac{1}{4}$
- C. $\frac{1}{2}$
- D. 1

Part B

Drag the tiles to explain how you can use benchmark numbers to compare the fractions.

>	$\frac{1}{2}$	<	=	1	0	$\frac{1}{4}$

$\frac{2}{6}$ [ ] and $\frac{5}{8}$ [ ] so $\frac{2}{6}$ [ ] $\frac{5}{8}$.

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Parker marks sixths on a number line. He writes $\frac{5}{6}$ just before 1.

What fraction does he write on the first mark to the right of 1?

Enter your answer in the box.

$\frac{\square}{6}$

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Molly wrote 4 stories. Which of her stories does NOT tell a division story?

A.

I have 28 pennies. I want to share them equally with 7 people.

B.

I have 18 pennies. I want to make 6 rows with the same number in each row.

C.

There are 5 rows of pennies. Each row has 6 pennies.

D.

There are 20 pennies divided into rows. Each row has 4 pennies.

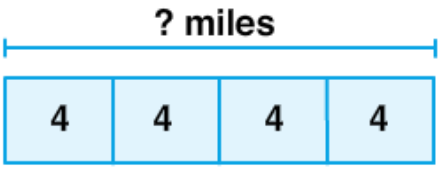
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Tanya and Reece each walked 4 miles on Monday.
Reece also walked 4 miles on Tuesday and 4 miles on Wednesday.
How many miles did Reece walk?

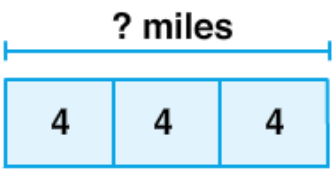
Part A

Which bar diagram can you use to find the answer?

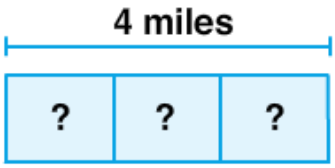
A.



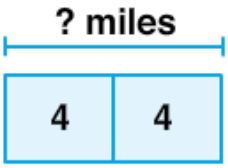
B.



C.



D.



Part B

Which equation can you use to find the answer?
Enter your answer in the boxes.

4 × ☐ = ☐

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Peggy is using a shortcut to find 8 × 70 mentally.
She says she just needs to find the product of the basic multiplication fact, find 8 × 7.

Part A

What else does Peggy need to do to find 8 × 70?

A. She needs to add 0 to the right of the product.

B. She needs to add 0 to the left of the product.

C. She needs to add 8 to the product.

D. She needs to add 15 to the product.

Part B

What is the product? Enter your answer in the box.

8 × 70 = ☐

Sally scored 750 points on a video game.
She wants to round the number to the nearest hundred.
Which statements are true? Choose all that apply.

- ☐ A. 750 is closer to 800 than to 700.
- ☐ B. 750 is closer to 700 than to 800.
- ☐ C. 750 is halfway between 700 and 800.
- ☐ D. 750 rounds to 700.
- ☐ E. 750 rounds to 800.

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Mrs. Singh wrote 4 equations on the board.

Which of Mrs. Singh's equations is NOT true?

- A. $3 \div 3 = 1$
- B. $7 \div 0 = 0$
- C. $8 \div 1 = 8$
- D. $0 \div 4 = 0$

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Shawna says her mug holds 100 milliliters.
Shelly says that the mug holds 1 liter.
Is Shelly correct? Choose the best answer.

A.

No, a capacity of 1 liter is too much for a mug.

B.

No, there are 10 milliliters in 1 liter.

C.

Yes, 1 liter is small enough for the capacity of a mug.

D.

Yes, there are 100 milliliters in 1 liter.

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Rectangle A has a width of 3 inches and a length of 5 inches.

Part A

Rectangle A has the same perimeter as Rectangle B.
If its width is 4 inches, what is its length?
Enter your answer in the box.

Rectangle B has a width of 4 inches and a length of _____ inches

Part B

Use the information from the problem and your answer from **Part A**.
Which rectangle has a larger area? Explain.
Choose all that apply.

- ☐ A. Rectangle A has an area of 15 square inches.
- ☐ B. Rectangle B has an area of 16 square inches.
- ☐ C. Rectangle B has an area of 15 square inches.
- ☐ D. Rectangle B has a larger area than Rectangle A.
- ☐ E. They both have the same area.

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Chantel has 36 cherries to share equally with 5 friends.

If Chantel also gets an equal number of cherries, how many cherries will each person get?

Enter your answer in the box.

_____ cherries

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Darlene says that $\frac{1}{4}$ is greater than $\frac{1}{3}$ because 4 is great than 3.

Is she correct? Choose the best answer.

A.

Yes, she is correct.

B.

No, a whole divided into 3 equal parts has larger parts than if the whole were divided into 4 equal parts.

C.

No, both fractions are equal.

D.

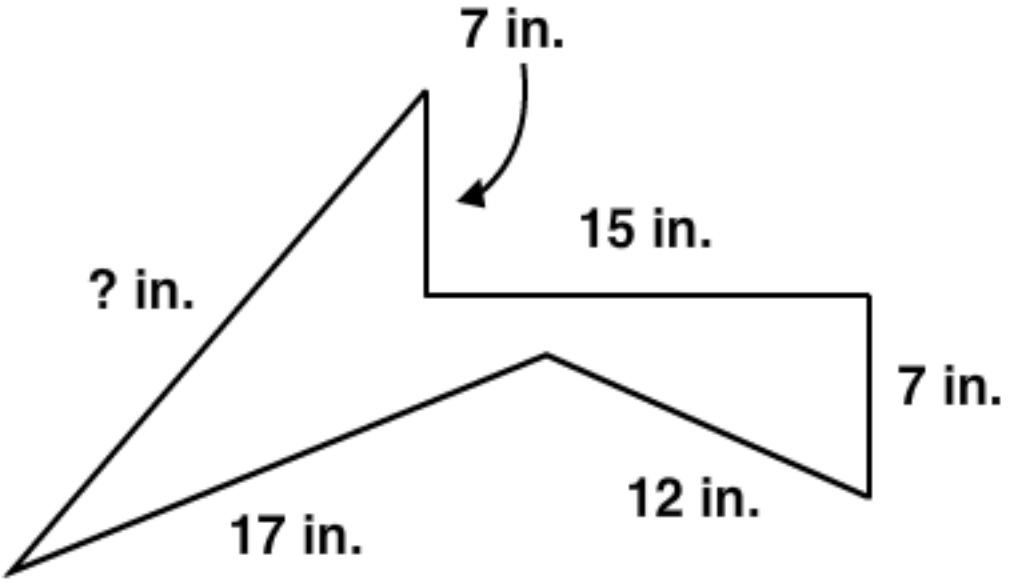
No, the denominators do not help you find which fraction is greater.

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David drew the polygon below.

The perimeter of the polygon is 76 inches.

What is the missing side length?



Enter your answer in the box.

[ ] inches

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Lila is making a tile pattern in the shape of a square.
One side is 9 inches across.
What is the area of the tile pattern?

Enter your answer in the box.

square inches

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Jason has 56 pennies to stack equally in 8 piles.
Which equation can help you find 56 ÷ 8?

Enter your answer in the boxes.

[ ] × ? = [ ]

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Look at the figures.



Figure A

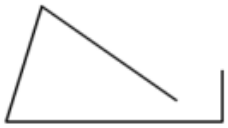


Figure B

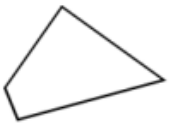


Figure C

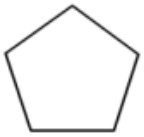


Figure D

Part A

Which figure is a quadrilateral?

- A. A
- B. B
- C. C
- D. D

Part B

Explain how you know. Choose all that apply.

- A. A quadrilateral is a closed shape.
- B. A quadrilateral is an open shape.
- C. A quadrilateral has 6 sides.
- D. A quadrilateral has 4 sides.
- E. A quadrilateral has straight line segments.

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Show the steps Maya should use when finding 845 – 357,
if she is using place value to break the problem into smaller problems.
Enter your answers in the boxes.

845 – ☐ = 545

545 – ☐ = 505

505 – ☐ = 495

495 – ☐ = 488

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Rachel breaks up a large array into two smaller arrays. The two smaller arrays show 3 × 5 and 4 × 5. What was the large array that Rachel started with? Enter your answer in the box.

[ ] × 5

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Henri looked at a clock when he left home for chess club.
He looked at the clock again when he got back home after the club.
How long was Henri away from home?

Left Home



Returned Home



Enter your answer in the boxes.

_____ hour(s), _____ minutes

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Tracy is making a bar graph to compare how many pencils she has of each color. She has 6 blue pencils, 9 red pencils, 6 yellow pencils, and 10 green pencils. Which scale makes the most sense for Tracy to use?

A.

Each grid line should equal 20 pencils.

B.

Each grid line should equal 10 pencils.

C.

Each grid line should equal 5 pencils.

D.

Each grid line should equal 2 pencils.

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Carter drove 173 miles to the lake. Jim drove 148 miles.

Which equation uses rounding numbers to the nearest ten to estimate how many more miles Carter drove?

A. 175 – 150 = 25

B. 200 – 150 = 50

C. 170 – 150 = 20

D. 200 – 100 = 100

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Ron is trying to find the fraction of the figure that is shaded.
Which fraction represents each equal part in the figure?



A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. $\frac{1}{4}$

D. $\frac{1}{6}$

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Shirley wants to make doughnuts. She needs 2 ounces of jelly to make a doughnut.
Jelly comes in 8-ounce jars. If she wants to make 20 doughnuts, how many jars does she need to buy?

A. 4 jars

B. 5 jars

C. 10 jars

D. 12 jars

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A library bookshelf has 6 shelves. Nine books can fit on each shelf.

How many books can the bookshelf hold?

Enter your answer in the box.

_____ books

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Lawrence needs to be at his job by 5:00 p.m.

It takes him 20 minutes to ride his bike to his job, 30 minutes to eat dinner, and 45 minutes to do his homework.

What time does he need to start his homework?

- A. 3:00
- B. 3:25
- C. 3:35
- D. 4:20

You can buy a package of 3 paper towel rolls for $12 or a package of 9 paper towel rolls for $18 dollars.
Which option is cheaper?

Part A

Which equations show how much the paper towels cost for each option?

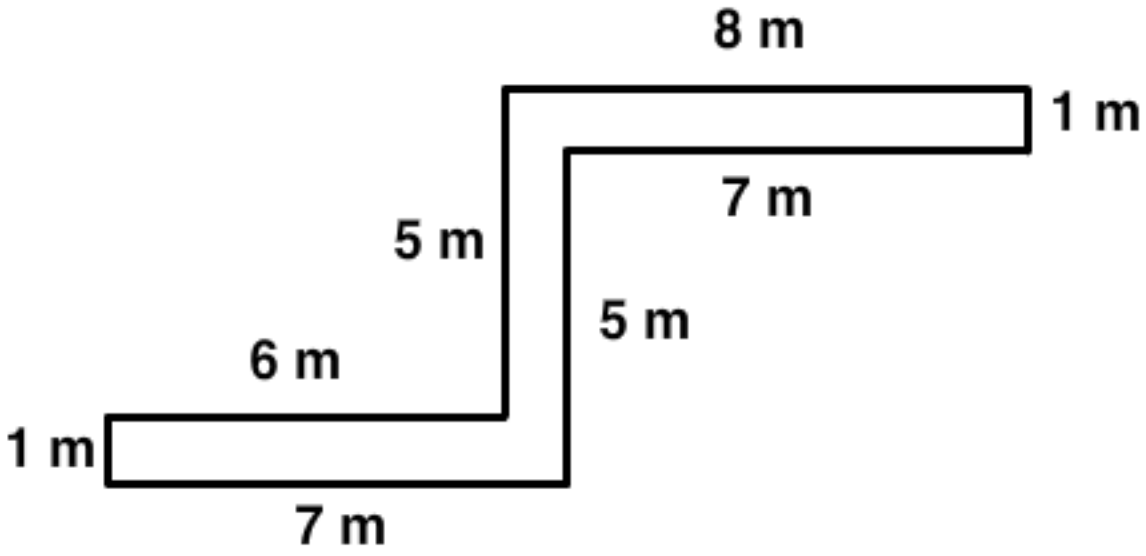
- A. $12 ÷ 4 = $3
- B. $18 ÷ 9 = $2
- C. $18 ÷ 6 = $3
- D. $12 ÷ 3 = $4
- E. $12 ÷ 6 = $2

Part B

Which option is cheaper?

- A. The package of 3 paper towels is cheaper.
- B. The package of 9 paper towels is cheaper.
- C. The price per roll is the same for both packages.
- D. There is not enough information to answer the question.

Alex made a drawing of the path in his garden. What is the area of the path?



Enter your answer in the box.

Area: square meters