HOME / GRADE 4 MATHEMATICS / SESSION 1 / 1 OF 36

Which statement about angles is true?

A. An angle is formed by two rays that do not have the same endpoint.

B. An angle that turns through $\frac{1}{360}$ of a circle has a measure of 360 degrees.

C. An angle that turns through five 1-degree angles has a measure of 5 degrees.

D. An angle measure is equal to the total length of the two rays that form the angle.

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Four teachers offer an after-school chess club. The table shows the number of students who joined.

| Grade | Number of Students |
|---|---|
| Third | 12 |
| Fourth | 36 |
| Fifth | 9 |

**Part A**

The teachers will divide the total group of students who joined into teams of **no more than** 6 students.

What is the **least** number of teams that will include all of the students?

Enter your answer in the box.

_____ teams

**Part B**

The chess club started with 18 chess sets. The teachers ordered 3 cases of 15 chess sets. They will divide the total number of chess sets so that each teacher receives an equal number. Then they will give any extra sets to the school library.

What is the **greatest** number of chess sets each of the 4 teachers should get?

Enter your answer in the box.

_____ chess sets

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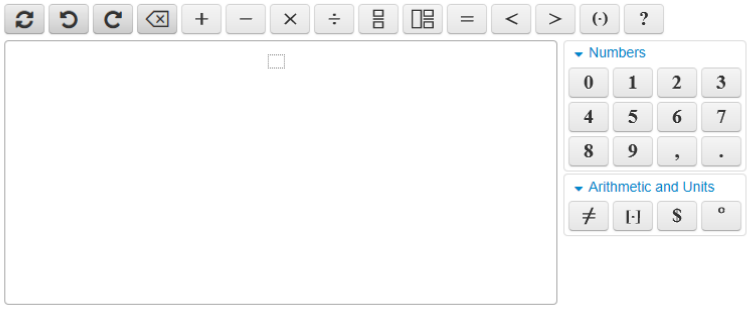
Ryan makes 6 backpacks. He uses $\frac{3}{4}$ yard of cloth to make each backpack. What is the total amount of cloth, in yards, Ryan uses to make all 6 backpacks?

Enter your answer in the space provided.



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A team runs a race. There are 4 people on the team, and each person runs the same distance. The team runs a total distance of 5,280 feet.

What is the distance that each person runs?

Enter your answer in the box.

_____ feet

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The length of a desktop is 4 feet. How many inches is the length of the desktop?

Enter your answer in the box.

_____ inches

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 6 OF 36

Enter your answer in the box.

$522 \div 9 =$ _____

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Hayley has 272 beads. She buys 38 more beads. She will use 89 beads to make bracelets and the rest to make necklaces. She will use 9 beads for each necklace.

What is the **greatest** number of necklaces Hayley can make?

Enter your answer in the box.

_____ necklaces

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Each student in a class chose one sport to play. This table shows the fractions of all students who chose each sport.

| Sport | Fraction of All Students |
|---|---|
| Soccer | $\frac{3}{10}$ |
| Football | $\frac{2}{10}$ |
| Hockey | $\frac{1}{10}$ |
| Basketball | $\frac{4}{10}$ |

**Part A**

Drag and drop the fractions and operation symbols into the blanks to create an equation that can be used to find $s$, the fraction of all students that chose to play either soccer or basketball.

Drag and drop the answers into the correct order.

1/10 2/10 3/10 4/10 + − × ÷

☐ ☐ ☐ = $s$

**Part B**

Enter the fraction of all the students who chose to play either soccer or basketball.

Enter your answer in the space provided.

+ − × ÷ = < > (·) ?

Numbers

0 1 2 3
4 5 6 7
8 9 , .

Arithmetic and Units

≠ |·| $ °

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 9 OF 36

The Amazon River is about 6,516 kilometers long.

The Mississippi River is about 3,775 kilometers long.

What is the difference, in kilometers, between these two lengths?

Enter your answer in the box.

☐ kilometers

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 10 OF 36

Enter your answer in the box.

$6{,}272 + 2{,}766 =$ ☐

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 11 OF 36

Mr. Kowolski ordered 35 boxes of granola bars. Each box contained 24 granola bars.

What is the total number of granola bars Mr. Kowolski ordered?

Enter your answer in the box.

_____ granola bars

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Enter your answer in the box.

$3{,}950 + 405 =$ _____

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 13 OF 36

Jordan places two boards end to end to make one shelf. The first board is $\frac{47}{100}$ meter long. The second board is $\frac{5}{10}$ meter long.

**Part A**

What fraction is equivalent to $\frac{5}{10}$ and has a denominator of 100?

Enter your answer in the space provided.

+ − × ÷ = < > (·) ?

Numbers

0 1 2 3
4 5 6 7
8 9 , .

Arithmetic and Units

≠ |·| $ °

**Part B**

What is the total length, in meters, of the two boards?

Enter your answer in the space provided.

+ − × ÷ = < > (·) ?

Numbers

0 1 2 3
4 5 6 7
8 9 , .

Arithmetic and Units

≠ |·| $ °

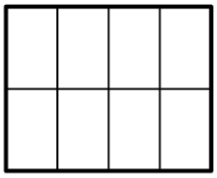
HOME / GRADE 4 MATHEMATICS / SESSION 1 / 14 OF 36

Enter your answer in the box.

$3{,}649 \times 6 =$ ____

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 15 OF 36

The rectangle is divided into eight equal sections.



Jodi colors 4 sections. Then she colors 3 more sections.

Which **two** of these represent the fraction of the rectangle that Jodi colors in all? Select the **two** correct answers.

- ☐ A. $\frac{4}{8} + \frac{3}{8}$
- ☐ B. $4 + 3$
- ☐ C. $\frac{8}{4} + \frac{8}{3}$
- ☐ D. $\frac{1}{8} + 3$
- ☐ E. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 16 OF 36

Mr. Soto's bicycle weighs 30 pounds. Mr. Soto's car weighs 90 times as much as his bicycle. What is the weight, in pounds, of Mr. Soto's car?

Enter your answer in the box.

____ pounds

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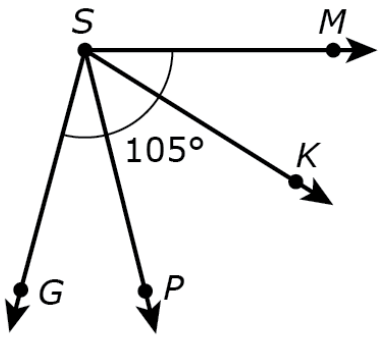
Two figures are shown. In Figure 1, the measure of angle *MSG* is 105°.

Figure 1




The measures of angle *MSK*, angle *KSP*, and angle *PSG* are shown

**Part A**

Drag and drop numbers and symbols into the blanks to complete an equation that can be used to find the value of *y*. Each symbol may be used more than once or not at all.

Drag and drop the numbers and symbols into the correct order.

y | + | − | × | ÷ | 105 | 32 | 44

____ ____ ____ ____ ____ = 105

**Part B**

What is the value of *y* ?

Enter your answer in the box.

____

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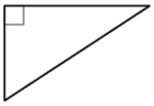
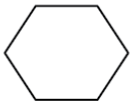
For each figure pictured in the table, select the box for any statement that describes the figure. You may select more than one box for each figure.

| | Appears to have at least 2 parallel sides | Has at least 2 perpendicular sides |
|---|---|---|
|  | ☐ | ☐ |
|  | ☐ | ☐ |
|  | ☐ | ☐ |
|  | ☐ | ☐ |
|  | ☐ | ☐ |

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 19 OF 36

Enter your answer in the box.

$5{,}314 - 4{,}983 =$ ☐

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 20 OF 36

Select the correct symbol from each drop-down menu to compare the measurements.

0.4 meter Choose... 0.04 meter

0.3 meter Choose... 0.5 meter

0.65 meter Choose... 0.61 meter

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 21 OF 36

A garden contains only bean plants and tomato plants. There are 5 rows of bean plants and 6 rows of tomato plants. Each row of bean plants has 13 plants. Each row of tomato plants has 16 plants.

What is the total number of plants in the garden?

Enter your answer in the box.

☐ plants

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The table shows the number of computers sold at a store in three different months.

| Month | Number of Computers |
|---|---|
| January | 6,521 |
| February | 2,374 |
| March | 2,498 |

**Part A**

What is the total number of computers sold at the store in the three months?

Enter your answer in the box.

_____ computers

**Part B**

How many **more** computers were sold at the store in January than in both February and March combined?

Enter your answer in the box.

_____ computers

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Select the **three** choices that are factor pairs for the number 28.

- ☐ A. 1 and 28
- ☐ B. 2 and 14
- ☐ C. 3 and 9
- ☐ D. 4 and 7
- ☐ E. 6 and 5
- ☐ F. 8 and 3

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The number 234 is multiplied by 10.

Select the correct word and number from each drop-down menu to complete the statement.

The numeral 2 in the resulting product is in the Choose... place,

and the value of this digit is Choose... .

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 25 OF 36

**Part A**

Sean buys 5 packages of fish. There is $\frac{7}{8}$ pound of fish in each package.

What is the total weight, in pounds, of fish that Sean buys?

Enter your answer in the space provided.

+ − × ÷ = < > (·) ?

Numbers

0 1 2 3
4 5 6 7
8 9 , .

Arithmetic and Units

≠ |·| $ °

**Part B**

Sean cooks 1 package of the fish. He eats $\frac{3}{8}$ pound of the fish from the package.

What is the total weight, in pounds, of the cooked fish that is left after Sean eats $\frac{3}{8}$ pound?

Enter your answer in the space provided.

+ − × ÷ = < > (·) ?

Numbers

0 1 2 3
4 5 6 7
8 9 , .

Arithmetic and Units

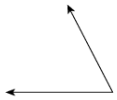
≠ |·| $ °

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 26 OF 36

Which angle has a measure of 65°?

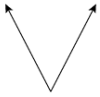
You can use the protractor to help you find the answer.

A.

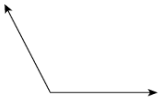


B.

C.



D.



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Enter your answer in the box.

$\frac{9}{10} = \frac{\square}{100}$

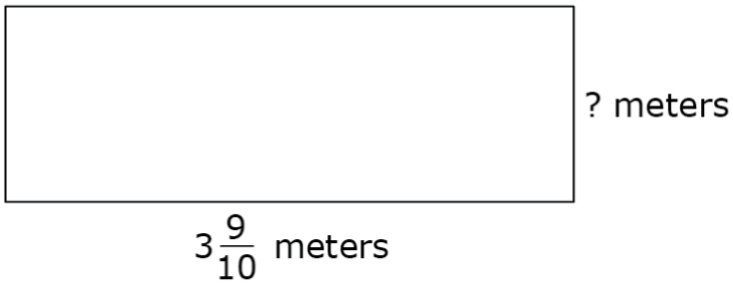
HOME / GRADE 4 MATHEMATICS / SESSION 1 / 28 OF 36

Which **two** equations represent the statement "48 is 6 times as many as 8"?

Select the **two** correct answers.

- ☐ A. $48 = 6 + 8$
- ☐ B. $48 = 6 \times 8$
- ☐ C. $48 = 6 \times 6$
- ☐ D. $48 = 8 + 6$
- ☐ E. $48 = 8 \times 6$

The model shows a hallway in Clark's house.

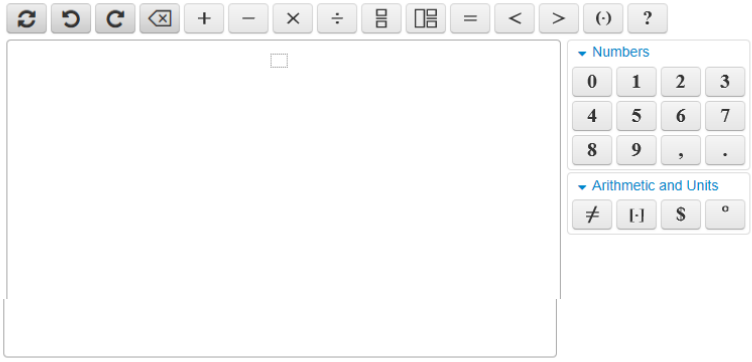



**Part A**

The perimeter of the hallway is $10\frac{4}{10}$ meters.

What is the width, in meters, of the hallway?

Enter your answer in the space provided.

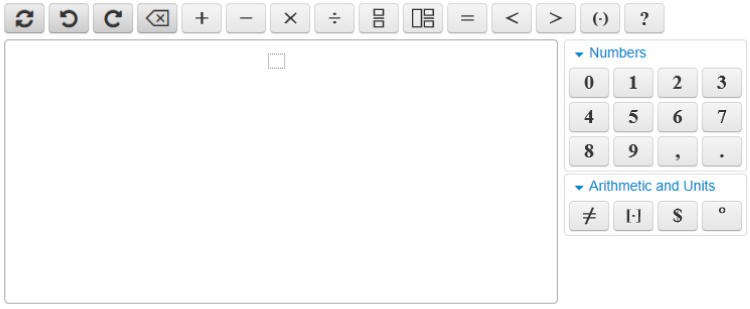



**Part B**

Clark's family adds a closet that shortens the length of the hallway by $\frac{6}{10}$ meter.

What is the new perimeter, in meters, of the hallway?

Enter your answer in the space provided.



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Which expression is equivalent to $6 \times \frac{2}{3}$?

- A. $12 \times \frac{1}{2}$
- B. $12 \times \frac{1}{3}$
- C. $6 \times \frac{1}{3}$
- D. $3 \times \frac{2}{3}$

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Select the correct symbol from each drop-down menu to complete the comparisons.

$\frac{6}{12}$ Choose... $\frac{1}{2}$

$\frac{8}{4}$ Choose... $\frac{3}{2}$

$\frac{9}{10}$ Choose... $\frac{6}{5}$

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Drag and drop each number that is a multiple of 8 into the box.

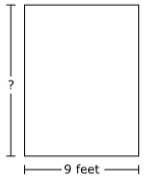
1 2 4 8 20 24 36 58 64 80

**Multiples of 8**

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 33 OF 36

The area of the rectangular sandbox at Dave's school is 108-square feet.

The sandbox has a width of 9 feet as shown in the diagram.




What is the length of the sandbox?

Enter your answer in the box.

_____ feet

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Rachana has a set of 10 mugs. The set is made up of three different kinds of mugs.

- $\frac{1}{2}$ of the mugs have pictures on them.
- $\frac{2}{5}$ of the mugs have words on them.
- $\frac{1}{10}$ of the mugs have flowers on them.

**Part A**

Place the fractions in order, from least to greatest.

1/2 2/5 1/10

| | |
|---|---|
| Least | |
| | |
| Greatest | |

**Part B**

Enter a fraction equal to $\frac{2}{5}$, with a denominator of 10, to show the fraction of the set of mugs that have words on them.

Enter your answer in the space provided.

+ − × ÷ = < > (·) ?

Numbers

0 1 2 3
4 5 6 7
8 9 , .

Arithmetic and Units

≠ |·| $ °

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 35 OF 36

Enter your answer in the box.

$7{,}564 + 8{,}239 =$

HOME / GRADE 4 MATHEMATICS / SESSION 1 / 36 OF 36

Enter your answer in the box.

$9{,}751 - 2{,}489 =$