**1** Carlos walks 3.65 kilometers on Saturday and 1.46 kilometers on Sunday. How many total kilometers does Carlos walk on Saturday and Sunday?

    **A**   2.19

    **B**   2.29
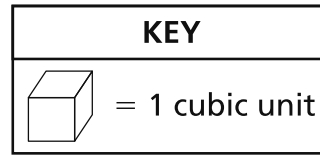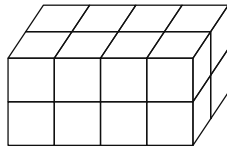
    **C**   5.01

    **D**   5.11

**2** Which expression is equivalent to $5 \times \frac{3}{4}$ ?

    **A**   $\frac{5}{1} + \frac{3}{4}$

    **B**   $\frac{5}{1} - \frac{3}{4}$

    **C**   $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4}$

    **D**   $\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$

***GO ON***

**3** A diagram of a right rectangular prism made of unit cubes is shown below.



| KEY |
|---|
| = 1 cubic unit |

What measurement for the right rectangular prism is equal to the total number of cubes?

**A**   area

**B**   height

**C**   perimeter

**D**   volume

**4** What is 34.275 rounded to the nearest hundredth?

**A**   34.0

**B**   34.3

**C**   34.27

**D**   34.28

**7** A group of 4 gold miners found 10 ounces of gold. The miners shared the gold equally. How much gold, in ounces, did each miner receive?
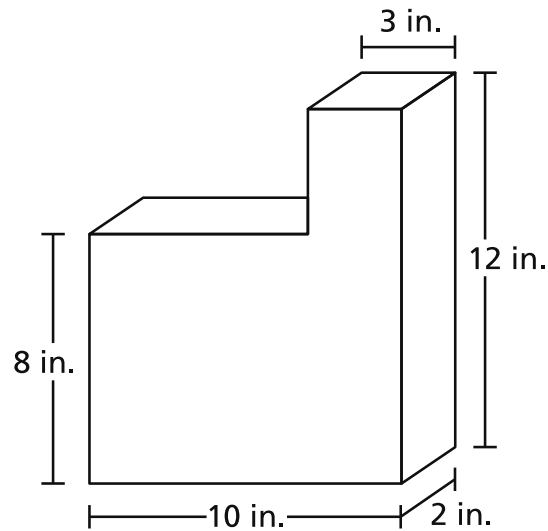
A  $\dfrac{1}{4}$

B  $\dfrac{4}{10}$

C  $2\dfrac{2}{10}$

D  $2\dfrac{1}{2}$

**9** A diagram of a 3-dimensional figure is shown below.

3 in.

12 in.

8 in.

10 in. 2 in.

What is the volume, in cubic inches, of the figure?

**A**   35

**B**   72

**C**   184

**D**   240

**10** Steven has 3 cups of raisins. He shares all the raisins equally among himself and his friends.

If each person gets $\frac{1}{4}$ cup of raisins, how many people, in total, get raisins?

**A**   1

**B**   4

**C**   7

**D**   12

*GO ON*

**12** Saul has $6.00 in quarters. He uses all of the quarters to play video games. If each game requires 3 quarters, what is the total number of video games that Saul plays?

**A** 2

**B** 8

**C** 12

**D** 18

**15** A company has an annual employee picnic. The company rents buses to transport the employees to the picnic area. There are 1,320 employees. Each bus carries a total of 54 employees. What is the **minimum** number of buses the company needs to transport all of the employees to the picnic area?

A   24

B   25

C   26

D   27

**16** Which comparison is true?

A   $0.04 > 0.14$

B   $0.83 > 0.92$

C   $0.27 < 0.36$

D   $0.52 < 0.49$

**19** Which statement about the relationship between parallelograms and rectangles is true?

**A** All parallelograms are rectangles, but not all rectangles are parallelograms.

**B** All rectangles are parallelograms, but not all parallelograms are rectangles.

**C** All rectangles are parallelograms, and all parallelograms are rectangles.

**D** Not all parallelograms are rectangles, and not all rectangles are parallelograms.

*GO ON*

**27** What is the value of the expression $\frac{1}{7} \div 5$ ?

A  $\frac{1}{35}$

B  $\frac{1}{12}$

C  $\frac{5}{7}$

D  $\frac{6}{7}$

**28** Marcel has $2\frac{1}{3}$ cups of milk. He uses $\frac{2}{3}$ cup for his cereal and $1\frac{1}{4}$ cups for a pancake recipe.

How much milk, in cups, does Marcel have remaining?

A  $\frac{5}{12}$

B  $\frac{7}{12}$

C  $1\frac{1}{12}$

D  $1\frac{11}{12}$

*GO ON*

**30** What is the area, in square units, of a rectangle with side lengths $3\frac{3}{4}$ units and $9\frac{1}{2}$ units?

**A**    $13\frac{1}{4}$

**B**    $27\frac{3}{8}$

**C**    $35\frac{5}{8}$

**D**    $47\frac{1}{2}$

**31** Rida is walking on a trail that is 2.5 kilometers long. She has walked 0.72 kilometer of the trail so far. How many more kilometers does Rida still need to walk to complete the trail?

    **A**   0.53

    **B**   0.97

    **C**   1.78

    **D**   3.22

**32** What is the value of the expression shown below?

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

    **A**   $\dfrac{2}{1}$

    **B**   $\dfrac{4}{9}$

    **C**   $\dfrac{11}{12}$

    **D**   $\dfrac{17}{12}$

**33** Lisa drew a four-sided shape that had exactly one pair of parallel lines and two right angles. Which list correctly classifies the shape Lisa drew?

    **A**   square, rhombus, quadrilateral

    **B**   trapezoid, quadrilateral, polygon

    **C**   rectangle, parallelogram, polygon

    **D**   rhombus, parallelogram, quadrilateral

**GO ON**

**34** Elsie has two equal-sized bags of rice. One bag is $\frac{1}{3}$ full, and the other bag is $\frac{1}{5}$ full. She combines the rice into one of the bags. What fraction of a full bag of rice does Elsie now have after combining the rice?

A  $\frac{1}{2}$

B  $\frac{1}{4}$

C  $\frac{2}{15}$

D  $\frac{8}{15}$

**35** The distance between two houses on a street is 450 meters. What is the distance measured in kilometers?

A  45

B  4.5

C  0.45

D  0.045

**36** This question is worth 1 credit.

Calvin has a box in the shape of a right rectangular prism. He packs it with unit cubes to determine its volume. The dimensions of the box are listed below.

- length: 16 inches
- width: 7 inches
- height: 8 inches

Each unit cube is 1 cubic inch. How many unit cubes will Calvin need to completely fill the box?

*Answer* _____ unit cubes

*GO ON*

**37** This question is worth 1 credit.

A family takes a cake to a party. When the family is ready to leave the party, $\frac{3}{4}$ of the cake is left. The family leaves $\frac{1}{2}$ of the leftover cake at the party and takes the remaining cake home. What fraction of all of the cake does the family take home?

*Answer* _____ of the cake

**38** This question is worth 1 credit.

A teacher has 55 sheets of stickers with a total of 1,320 stickers. Each sheet has the same number of stickers. How many stickers are on each sheet?
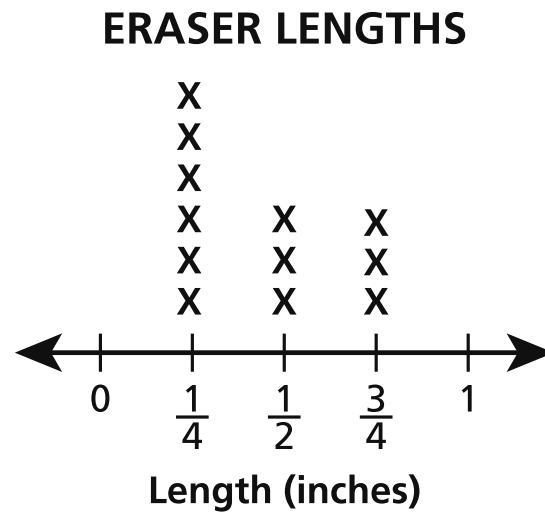
*Answer* _____ stickers

*GO ON*

**Session 2**

**39** This question is worth 2 credits.

Students in a fifth-grade math class measured the lengths of 12 erasers. The line plot below shows the results.

## ERASER LENGTHS

```
 X
 X
 X
 X    X    X
 X    X    X
 X    X    X
```

0   $\frac{1}{4}$   $\frac{1}{2}$   $\frac{3}{4}$   1

**Length (inches)**

What is the total length, in inches, of all the erasers when they are lined up end to end?
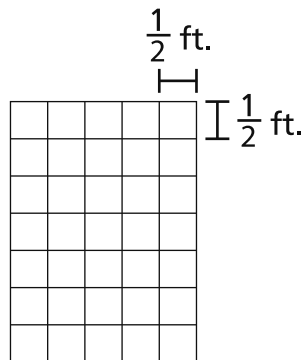
*Show your work.*

*Answer* _____ inches

**40** **This question is worth 2 credits.**

A table top is completely covered with square tiles as shown below. Each square tile has a side length of $\frac{1}{2}$ foot.

$$\frac{1}{2} \text{ ft.}$$



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

What is the area, in square feet, of the table top?

*Show your work.*

*Answer* _____ square feet

**41** This question is worth 2 credits.

Rosa and Steve each have a baseball card collection. Steve has $\frac{1}{8}$ as many baseball cards in his collection as Rosa. Who has more baseball cards? Be sure to include what you know about fractions in your answer.

*Explain your answer.*

_____

_____

_____

**42** **This question is worth 2 credits.**

A student incorrectly wrote the number three hundred sixty-two and four hundred eight thousandths in expanded form as shown below.

$$(3 \times 100) + (6 \times 10) + (2 \times 1) + \left(4 \times \frac{1}{10}\right) + \left(8 \times \frac{1}{100}\right)$$
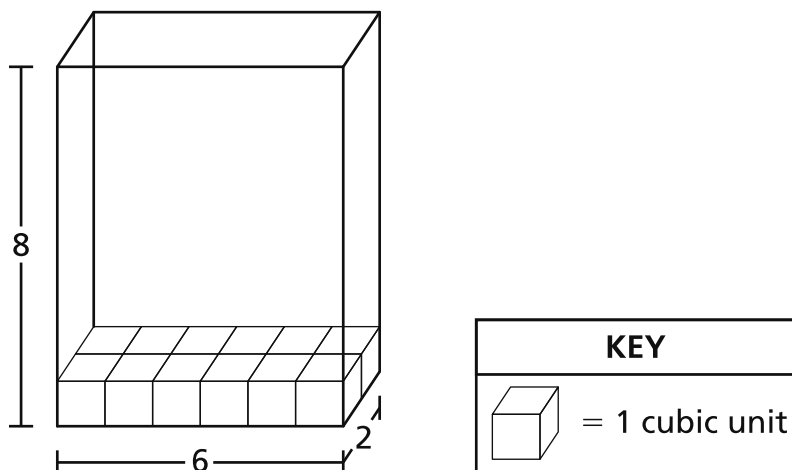
What error did the student make when writing the number in expanded form? Be sure to include the correct number in standard form in your answer.

*Explain your answer.*

_____

_____

_____

**43**

**This question is worth 2 credits.**

The base of the right rectangular prism shown below is filled with unit cubes.



| KEY |
|---|
| ☐ = 1 cubic unit |

How many more unit cubes are needed to completely fill the right rectangular prism?

*Explain how you determined your answer.*

_____

_____

_____

**44** This question is worth 3 credits.

Liam makes and sells handmade blankets. He buys 18 yards of fabric at a rate of $6.75 per yard. Liam uses 1.5 yards of fabric to make each blanket, and uses all of the fabric. Liam sells each blanket for $18.75. What is the profit Liam makes after buying the fabric and selling all the blankets?

*Show your work.*

*Answer* $ _____

**STOP**