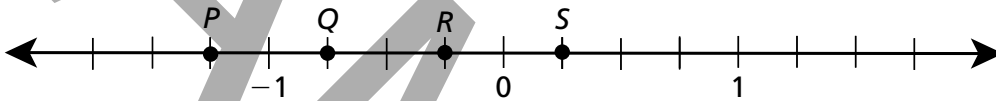**1** Paula can pick 5 quarts of strawberries in 30 minutes. At this rate, how many quarts of strawberries can she pick in $4\frac{1}{2}$ hours?

A $22\frac{1}{2}$ quarts

B 45 quarts

C 135 quarts

D 150 quarts

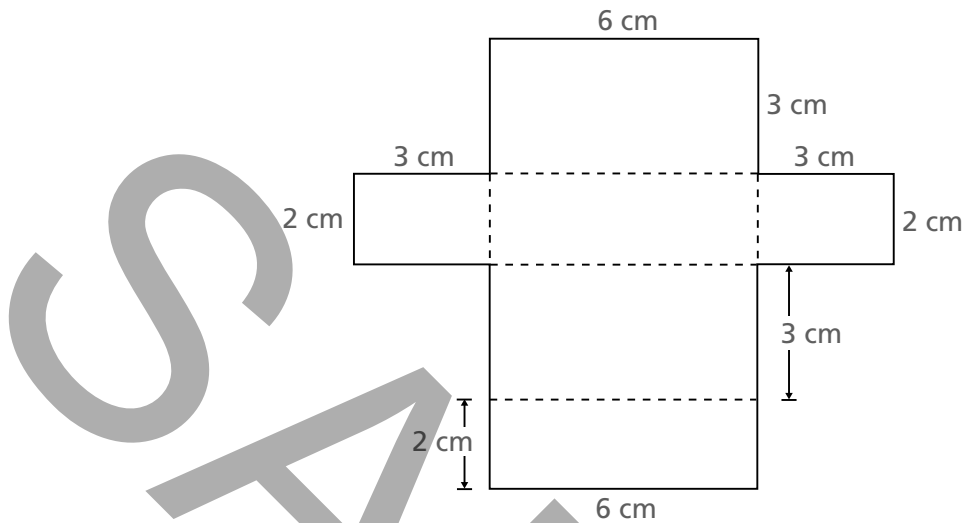**2** Which point represents $-1\frac{1}{4}$ on the number line below?

A point *P*

B point *Q*

C point *R*

D point *S*

3 $(71 \times 5) + (71 \times 9) + (71 \times 4) =$

A $71 \times 5 \times 9 \times 4$

B $71 \times (5 + 9 + 4)$

C $71 + (5 \times 9 \times 4)$

D $71 \times 71 \times 71 \times 18$

GO ON

Session 1

4 What is the surface area of the box formed by the pattern below?

6 cm

3 cm

3 cm   3 cm

2 cm   2 cm

3 cm

2 cm

6 cm

A   36 cm²

B   60 cm²

C   72 cm²

D   90 cm²

5 The sixth grade is going on a picnic. Ms. Zamora is in charge of buying the hot dogs and buns. Hot dogs are sold in packages of 10. Hot dog buns are sold in packages of 8. What are the least numbers of packages of hot dogs and buns she could buy in order to have an equal number of both?
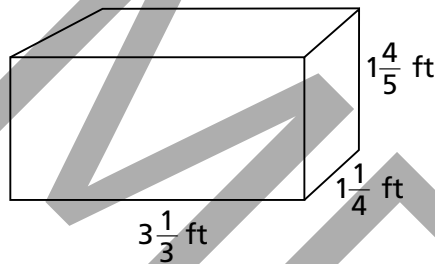
A   4 packages of hot dogs, 5 packages of buns

B   5 packages of hot dogs, 4 packages of buns

C   8 packages of hot dogs, 10 packages of buns

D   10 packages of hot dogs, 8 packages of buns

GO ON

6 Which point on the number line best represents -0.075?
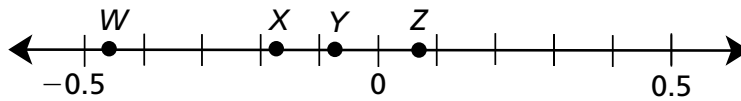
A point *W*

B point *X*

C point *Y*

D point *Z*

7 Lorraine keeps some tropical fish in an aquarium. The dimensions of the aquarium are shown below.

What is the volume of the aquarium?

A $5\frac{1}{15}$ cubic feet

B $6\frac{1}{5}$ cubic feet

C $7\frac{1}{2}$ cubic feet

D $8\frac{1}{10}$ cubic feet

GO ON

Session 1

8 Which equation is satisfied by $c = 7$?

A $9 - 4 + 2(10) < c + 8$

B $18 - 4 \times c = 6$

C $22 \div 2 - c < 5$

D $3c = 24$

9 What is the quotient of 819 divided by 63?

A 13

B 12

C 11

D 10

10 The school field trip needs at least 1 chaperone for every 12 students. The school has 121 students who want to go on the field trip. If c represents the number of chaperones, and the school does not yet have enough to hold the field trip, how many chaperones might there be?

A $c < 11$

B $c \leq 11$

C $c < 12$

D $c \leq 12$

11 Forty students are in an after-school homework club. Twenty-five of the students are boys. Which is the ratio of boys to the total number of students in the club?

A $\frac{5}{3}$

B $\frac{5}{8}$

C $\frac{40}{25}$

D $\frac{15}{40}$

GO ON

Session 1

12 Which property is used to simplify 23(13 + 12) to (23 × 13) + (23 × 12)?

A Associative Property

B Commutative Property

C Additive Inverse Property

D Distributive Property

13 Kelly divided 1.875 by 0.005. Which of the following examples would give the same answer?

A 18.75 divided by 0.5

B 187.5 divided by 0.05

C 1875 divided by 0.5

D 1875 divided by 5

14 Which value of b satisfies **both** inequalities for b?

$$2b - 8 > 5$$
$$3b - 13 < 9$$

Use substitution to find the answer.

A 5

B 7

C 8

D 10

15 Fifteen students tried out for the basketball team. Eight students were selected. Which is the ratio of students selected to those trying out?

A 8:15

B 15:8

C 7:15

D 8:7

GO ON

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Session 1