

Unit 1 Interim Assessment

Solve the problems.

1 Which situation can be represented by the equation $-4 \times 5 = -20$?

- A** Jack exercised for 4 hours after school each day last week.
- B** The cost of a summer pool pass increased \$4 each of the last 5 years.
- C** Amanda earned \$4 for each of 5 classes in which she received an A.
- D** The temperature dropped 4 degrees each hour for 5 consecutive hours.

2 In which situation do the quantities combine to make 0?

- A** Emily ran 3 miles on Saturday and walked 3 miles on Sunday.
- B** Beverly bought a chair for \$350 and sold it 3 years later for \$350.
- C** Josh ran 2 laps counterclockwise around a track and then 2 laps clockwise around the track.
- D** Trey deposited \$150 into his savings account on Friday and withdrew \$100 the following week.

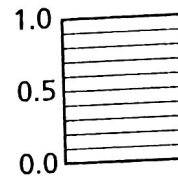
3 Which expression is equivalent to $19 - 27$?

- A** $27 - 19$ **C** $19 + (-27)$
- B** $-(19 + 27)$ **D** $-19 + 27$

4 Roger makes 70 gallons of pink paint by mixing 21 gallons of red paint with 49 gallons of white paint.

What part of every gallon is from red paint? _____

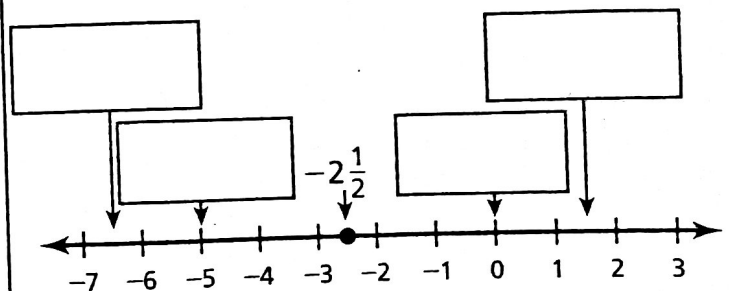
The model represents one gallon of mixed paint.



Shade the correct number of bars to show how much of a gallon is from red paint.

5 The point on the number line shows the location of $-2\frac{1}{2}$. Write each expression in a box to show its correct location on the number line.

$-2\frac{1}{2} + (-4)$	$-2\frac{1}{2} - (-4)$
$-2\frac{1}{2} - 2\frac{1}{2}$	$-2\frac{1}{2} + 2\frac{1}{2}$



- 6 Fill in the boxes below with numbers that make the statement true.

$$\boxed{} + (-7.28) = \text{a positive number}$$

$$12 + \boxed{} = 0$$

$$\boxed{} - 2\frac{3}{4} = \text{a negative number}$$

$$-4.8 - \boxed{} = \text{a positive number}$$

$$-15 + 15 = \boxed{}$$

- 7 Nolan correctly spelled $\frac{13}{16}$ of his spelling words. How is $\frac{13}{16}$ written as a decimal?

Show your work.

Answer _____

Unit 3 Interim Assessment

Solve the problems.

- 1** Jill always buys the same kind of shampoo in an 11.5-ounce bottle. She is at the store buying more and sees that the bottle is now bigger and has 20% more for the same price. How many ounces of shampoo are in the new bottle?

A 11.5
B 13.8
C 17.3
D 23.0

- 2** Mark incorrectly solved the inequality $-4\left(\frac{5}{2} + \frac{3}{2}x\right) > 8$. His work is shown.

Part A: Which step shows an error based on the inequality only from the previous step? Select all that apply.

A Step 1: $-10 + 6x > 8$
B Step 2: $6x > 8 - 10$
C Step 3: $6x > -2$
D Step 4: $x > -\frac{1}{3}$

Part B: What is the correct solution to the original inequality? _____

- 3** Luke's baseball team went to an amusement park at the end of the season. The cost of admission for 5 coaches and 12 players was \$407.50. The admission cost for each coach was \$27.50. What was the admission cost for each player?

A \$22.50
B \$23.97
C \$27.50
D \$31.67

- 4** Which scenario represents the expression $4x - 4$? Select Yes or No for each scenario.

A Jack earns \$4 per hour but owes his parents \$4; x represents the number of hours he works.

☐ Yes ☐ No

B Alex is 4 years older than 4 times Ava's age; x represents Ava's age.

☐ Yes ☐ No

C A store has a 4% discount on gloves; Mike bought x pairs of gloves at \$4 a pair.

☐ Yes ☐ No

D Jane bought x number of tickets at \$4 each and had a coupon for \$4 off the total cost.

☐ Yes ☐ No

- 5 Bobby is hanging a cabinet above the washer and dryer in the laundry room. The cabinet is $3\frac{1}{2}$ feet wide and 2 feet tall. If he wants to center the cabinet horizontally on a wall that is $6\frac{1}{4}$ feet wide, how far will the end of the cabinet be from the edge of the wall?

Show your work.

Answer _____

- 6 Lauren says the two expressions $3x + 4(2x + 5)$ and $6x + 5x + 5$ are equivalent.

Part A

Simplify the expressions to determine whether or not Lauren is correct.

Show your work.

Answer _____

Part B

Substitute a number for the variable to determine whether or not Lauren is correct.

Show your work.

Answer _____