

**Lesson****6.4****Review & Refresh** (continued)

24. The table shows the yards gain per drive by a football team. What is the average number of yards per drive?

<b>Drive</b>	1	2	3	4
<b>Yards</b>	70	-5	-10	25

25. In a game, you score 10 points for a correct answer. You lose 5 points for an incorrect answer.
- You get 8 questions wrong. What is your score?
  - You get 14 questions right and 3 wrong. What is your score?
26. A diver dives 15 minutes under water. The diver is 300 feet below sea level. What is the rate of the diver?
27. The price of stock decreases by 2, 1, 1, and 4 dollars during the week. What is the amount of change for the week?

**Lesson****6.4****Self-Assessment**

Use the scale to rate your understanding of the learning target and the success criteria.

<b>1</b> I don't understand yet.	<b>2</b> I can do it with help.	<b>3</b> I can do it on my own.	<b>4</b> I can teach someone else.
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	Rating	Date
<b>6.4 Dividing Integers</b>		
<b>Learning Target:</b> Find quotients of integers.	1   2   3   4	
I can explain the rules for dividing integers.	1   2   3   4	
I can find quotients of integers with the same sign.	1   2   3   4	
I can find quotients of integers with different signs.	1   2   3   4	

**Lesson**  
**6.5****Review & Refresh**

1. For every tile you draw in a game, you lose 5 points. For every tile you play, you gain 3 points. What is your score if you draw 9 tiles and play 12 tiles?
2. The table shows the change in number of students in a college. What is the mean yearly change in the population?

Year	2016	2017	2018	2019
Change	+400	-250	-300	-150

**Find the product or the quotient, if possible.**

3.  $49 \div (-7)$
4.  $-13(-7)$
5.  $(-27) \div (-3)$
6.  $(-7)(3)(-8)$
7.  $\frac{-90}{3}$
8.  $0(-15)$
9. A product was \$210. The price was reduced by \$8 each week that it was not sold. What is the price after 4 weeks?

**Find the difference.**

10.  $18 - (-2)$
11.  $-11 - 15$
12.  $-10 - (-15)$
13. The temperature at 3:00 P.M. is  $-3^{\circ}\text{C}$ . At 9:00 P.M., the temperature drops  $5^{\circ}\text{C}$ . What is the temperature at 9:00 P.M.?

**Determine whether the two expressions are equivalent.**

14.  $4^2 - 8$   
 $2^2 - 6 + 10$
15.  $3^2 - 5 \div (-5)$   
 $-7 - 3 \div (-1)$

**Lesson**  
**6.5**
**Review & Refresh** (continued)

Evaluate the expression.

16.  $18 - 6^2$

17.  $8(9 - 12) + 3$

18.  $7 + 3^2(-4)$

19.  $(20 - 30) \div (-2) + 8$

20.  $-2(3 - 4)^2 + 2$

21. Your team lost their first two games by 12 points each. What integer represents the change in points after the first two games?

22. The price for a ticket to a basketball game is \$15. The price reduces to \$8 for a group of 25 or more. How much money does a group of 30 people save?

23. Mercury has a boiling point of  $357^\circ\text{C}$  and a melting point  $-39^\circ\text{C}$ . What is the temperature difference of the melting point and the boiling point?

**Lesson**  
**6.5**
**Self-Assessment**

Use the scale to rate your understanding of the learning target and the success criteria.

<b>1</b> I don't understand yet.	<b>2</b> I can do it with help.	<b>3</b> I can do it on my own.	<b>4</b> I can teach someone else.
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	Rating	Date
<b>6.5 Using Integer Operations</b>		
<b>Learning Target:</b> Write and evaluate numerical expressions involving integers using the order of operations.	1   2   3   4	
I can apply order of operations to numerical expressions involving integers.	1   2   3   4	
I can represent a real-life problem using numerical expressions involving integers.	1   2   3   4	

**Chapter  
6**

**B.E.S.T. Test Prep**

1. The point  $(-4, 5)$  is graphed. It is located in Quadrant \_\_\_\_\_.

(A) I  
(B) II  
(C) III  
(D) IV

When  $(-4, 5)$  is reflected over the  $x$ -axis, it is now in Quadrant \_\_\_\_\_.

(A) I  
(B) II  
(C) III  
(D) IV

2. Which expressions represent a positive value?

(A)  $16 - 18$  (B)  $-14 - 16$  (C)  $-12 - (-20)$  (D)  $7 - 9$  (E)  $-5 - (-3)$  (F)  $9 - 5$

3. Which expressions represent a value less than  $-6$ ?

(A)  $(8)(-3)(0)$  (B)  $(-2)(4)$  (C)  $(-3)(-3)(-1)$  (D)  $(-24) \div 3$  (E)  $\frac{-72}{9}$  (F)  $(-32) \div (-4)$

4. What is the value of  $16 - 7(8 - 4) + 3$ ? 5. What is the value of  $7.8 \div 13 + 1.4^2 - 0.8$ ?

-	-	-	-	-	-	-
/	/	/	/	/	/	/
•	•	•	•	•	•	•
0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

-	-	-	-	-	-	-
/	/	/	/	/	/	/
•	•	•	•	•	•	•
0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

**Chapter  
6**

**B.E.S.T. Test Prep (continued)**

6. You score 30 points for your team at a quiz show. This is 40% of the team's total points. How many points did the team score?

Ⓐ 50 points                      Ⓒ 75 points  
Ⓑ 55 points                      Ⓓ 80 points

7. This question has **two** parts.

A store was graphed in the coordinate plane and is the shape of a rectangle. Three of the coordinates of the store are (45, 70), (10, 70), and (10, 15).

**Part A**

Find the perimeter, in units, of the rectangle.

-	-	-	-	-	-	-	-
/	/	/	/	/	/	/	/
.	.	.	.	.	.	.	.
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

**Part B**

Find the area, in square units, of the rectangle.

-	-	-	-	-	-	-	-
/	/	/	/	/	/	/	/
.	.	.	.	.	.	.	.
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

8. A submarine was 380 feet below sea level. The submarine descends 140 feet. What is its new position as an integer?

Ⓐ -520                      Ⓒ -280  
Ⓑ -420                      Ⓓ -240

9. Determine whether the value of each expression is positive or negative.

	Positive	Negative
$\frac{ -88 }{-8}$	Ⓐ	Ⓑ
$-4^2$	Ⓒ	Ⓓ
$(-81) \div (-3)$	Ⓔ	Ⓕ

# Chapter 6

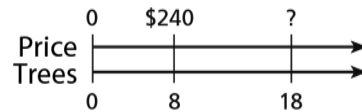
## B.E.S.T. Test Prep (continued)

10. Your bank account has  $-\$15$ . You deposit  $\$38$ . What is your new balance?

- (A)  $-\$51$  (C)  $\$23$   
(B)  $-\$23$  (D)  $\$51$

11. What is the missing quantity, in dollars, on the double number line?

-	-	-	-	-	-	-	-
/	/	/	/	/	/	/	/
.	.	.	.	.	.	.	.
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9



12. You drive your car 60 feet per second. What is your speed in yards per minute?

- (A) 180 yards per minute  
(B) 360 yards per minute  
(C) 1200 yards per minute  
(D) 3600 yards per minute

13. Which expression is greater than 10?

- (A)  $2\frac{2}{3} \div \left(\frac{3}{4}\right)^2 \times 2\frac{1}{5}$   
(B)  $1\frac{4}{5} \div \left(\frac{3}{4}\right)^2 \times 2\frac{2}{3}$   
(C)  $\left(1\frac{2}{5}\right)^2 \div \frac{1}{2} \times 2\frac{1}{3}$   
(D)  $\left(2\frac{1}{3}\right)^2 \div \frac{1}{2} \times \frac{4}{5}$

# Chapter 6

## B.E.S.T. Test Prep (continued)

14. At a gym, you swim every 4 days, run every 5 days, and cycle every 12 days. If you did all 3 activities today, in how many days will you do all 3 activities again?

-	-	-	-	-	-	-	-
/	/	/	/	/	/	/	/
.	.	.	.	.	.	.	.
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

15. There were 4 plants with record heights, in inches, at the beginning and at the end of the month. The change in height for the 4 plants was  $-1\frac{2}{3}$ , 2.75,  $-2.1$ , and  $1\frac{5}{6}$ . What is the order of the change in height of the plants from least to greatest?

- (A)  $-1\frac{2}{3}$ ,  $-2.1$ ,  $1\frac{5}{6}$ , 2.75
- (B)  $-2.1$ ,  $-1\frac{2}{3}$ ,  $1\frac{5}{6}$ , 2.75
- (C)  $-1\frac{2}{3}$ ,  $-2.1$ , 2.75,  $1\frac{5}{6}$
- (D)  $-2.1$ ,  $-1\frac{2}{3}$ , 2.75,  $1\frac{5}{6}$
16. Which property does  $16 \times (12 \times 3) = (16 \times 12) \times 3$  represent?
- (A) Commutative Property of Multiplication
- (B) Associative Property of Multiplication
- (C) Distributive Property
- (D) Multiplicative Inverse Property