

Upcoming 8th Graders Math Summer Packet – Summer 2017

Name _____

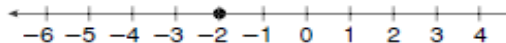
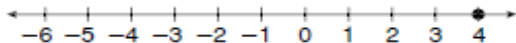
LESSON **Practice B**

2-2 Adding Integers

Use a number line to find each sum.

1. $-1 + 5$

2. $4 + (-6)$



Find each sum.

3. $-51 + (-9)$

4. $27 + (-6)$

5. $1 + (-30)$

6. $15 + (-25)$

7. $50 + (-7)$

8. $-19 + (-15)$

9. $(-23) + 9$

10. $-19 + (-21)$

11. $-17 + 11$

12. $20 + (-8)$

13. $(-15) + (-7)$

14. $12 + (-14)$

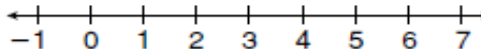
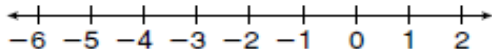
LESSON **Practice B**

2-3 Subtracting Integers

Use a number line to find each difference.

1. $-2 - 3$

2. $5 - (-1)$



Find each difference.

3. $-6 - 4$

4. $-7 - (-12)$

5. $12 - 16$

6. $5 - (-19)$

7. $-18 - (-18)$

8. $23 - (-23)$

9. $-10 - (-9)$

10. $29 - (-13)$

11. $9 - 15$

12. $-12 - 14$

13. $22 - (-8)$

14. $-16 - (-11)$

1-5 Order of Operations

Simplify each expression.

1. $15 \cdot 3 + 12 \cdot 2$

2. $212 + 21 \div 3$

3. $9 \cdot 3 - 18 \div 3$

4. $65 - 36 \div 3$

5. $100 - 9^2 + 2$

6. $3 \cdot 5 - 45 \div 3^2$

7. $54 \div 6 + 4 \cdot 6$

8. $(6 + 5) \cdot 16 \div 2$

9. $60 - 8 \cdot 12 \div 3$

10. $45 - 3^2 \cdot 5$

11. $52 - (8 \cdot 2 \div 4) + 3^2$

12. $(2^3 + 10 \div 2) \cdot 3$

13. $25 + 7(18 - 4^2)$

14. $(6 \cdot 3 - 12)^2 \div 9 + 7$

15. $4^3 - (3 + 12 \cdot 2 - 9)$

16. $2^4 \div 8 + 5$

17. $(1 + 2)^2 \cdot (3 - 1)^2 \div 2$

18. $(16 \div 4) + 4 \cdot (2^2 - 2)$

19. $2^5 - (3 \cdot 7 - 7)$

20. $75 + 5^2 - (8 - 3)$

21. $9 \cdot 6 - 5(10 - 3)$

22. $96 \div 4 + 5 \cdot 2^2$

23. $(15 - 6)^2 \div 3 - 3^3$

24. $19 - 8 \cdot 5 \div 10 + 6 \div 3$

25. Jared has \$32. He buys 5 packs of trading cards that cost \$3 each and a display book that costs \$7. Simplify the expression $32 - (5 \cdot 3 + 7)$ to find out how much money Jared has left.

26. David buys 3 movie tickets for \$6 each and 2 bags of popcorn for \$2 each. Simplify the expression $3 \cdot 6 + 2 \cdot 2$ to find out how much money David spent in all.

Evaluate $n - 5$ for each value of n .

1. $n = 8$

2. $n = 121$

3. $n = 32$

4. $n = 59$

Evaluate each expression for the given values of the variable.

5. $3n + 15$ for $n = 4$

6. $h \div 12$ for $h = 60$

7. $32x - 32$ for $x = 2$

8. $\frac{c}{2}$ for $c = 24$

9. $(n \div 2)5$ for $n = 14$

10. $8p + 148$ for $p = 15$

11. $e^2 - 7$ for $e = 8$

12. $3d^2 + d$ for $d = 5$

13. $40 - 4k^3$ for $k = 2$

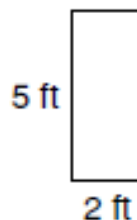
14. $2y - z$ for $y = 21$ and $z = 19$

15. $3h^2 + 8m$ for $h = 3$ and $m = 2$

16. $18 \div a + b \div 9$ for $a = 6$ and $b = 45$

17. $10x - 4y$ for $x = 14$ and $y = 5$

18. You can find the area of a rectangle with the expression lw where l represents the length and w represents the width. What is the area of the rectangle at right in square feet?



19. Rita drove an average of 55 mi/h on her trip to the mountains. You can use the expression $55h$ to find out how many miles she drove in h hours. If she drove for 5 hours, how many miles did she drive?
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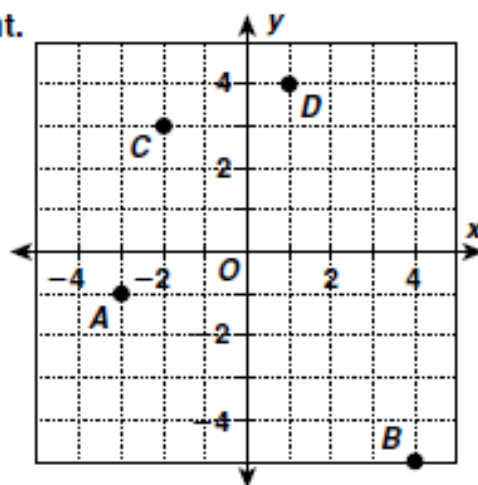
Identify the quadrant that contains each point.

1. A _____

2. B _____

3. C _____

4. D _____



Plot each point on a coordinate plane.

5. $(-4, 0)$

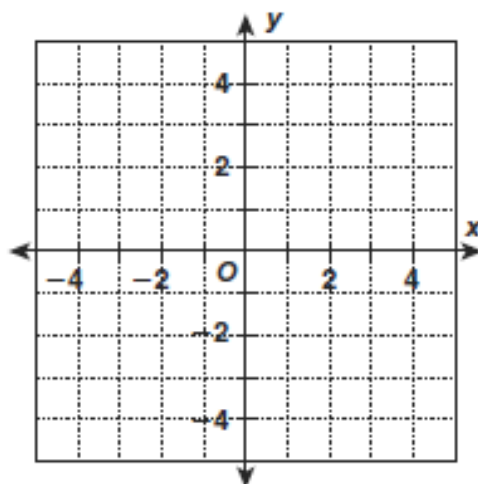
6. $(3, -3)$

7. $(1, 4)$

8. $(-5, -1)$

9. $(-2, 2)$

10. $(-1, -4)$



Give the coordinates of each point.

11. P _____

12. Q _____

13. R _____

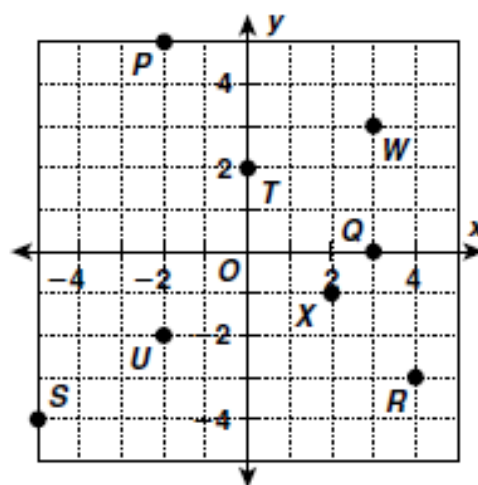
14. S _____

15. T _____

16. U _____

17. W _____

18. X _____



Practice B**Solving Two-Step Equations**

Solve. Check each answer.

1. $7x + 8 = 36$

2. $-3y - 7 = 2$

3. $4a - 13 = 19$

4. $6a - 4 = -2$

5. $5k + 2 = 6$

6. $9m - 14 = -8$

Solve.

7. $\frac{v}{4} - 3 = 5$

8. $\frac{u}{5} + 3 = 1$

9. $6 + \frac{z}{9} = 9$

10. $-7 + \frac{f}{2} = -1$

11. $9 + \frac{w}{4} = -5$

12. $\frac{e}{7} - 3 = -5$

13. $-8 + \frac{d}{5} = 2$

14. $\frac{u}{5} + 3 = 6$

15. $\frac{f}{-3} + 5 = 8$

16. Two years of local Internet service costs \$685, including the installation fee of \$85. What is the monthly fee?

Solving Multi-Step Equations

Solve.

1. $15x - 8 - 3x = 16$

2. $5n + 3 + 4n = 30$

3. $h - 6 + 7h = 42$

4. $-3g + 6 + 2g = 15$

5. $-2b + 7 - 3b = 2$

6. $5y + 1 + 3y = -15$

7. $10a - 37 = 6a + 51$

8. $5w + 9.9 = 4.8 + 8w$

9. $15 - x = 2(x + 3)$

10. $15y + 14 = 2(5y + 6)$

11. $14 - \frac{w}{8} = \frac{3w}{4} - 21$

12. $\frac{1}{2}(6x - 4) = 4x - 9$
