Name : _____ Score : _____

Adding and Subtracting Integers

L1S1

Simplify.

1) $1 + 15 =$ _____

2) $(-6) - (-17) =$ _____

3) $19 - (-2) =$ _____

4) $(-13) + 20 =$ _____

5) $(-4) + (-18) =$ _____

6) $5 - 14 =$ _____

7) $(-12) - 7 =$ _____

8) $10 + (-16) =$ _____

9) $3 + (-20) =$ _____

10) $(-8) - 12 =$ _____

11) $(-15) - (-10) =$ _____

12) $(-19) + 18 =$ _____

13) $17 + 13 =$ _____

14) $11 - (-9) =$ _____

15) $16 - 0 =$ _____

16) $(-7) + (-14) =$ _____

Name : _____ Score : _____

Evaluating Expressions

Sheet 1

1) Evaluate the following expressions for $x = 5$, $y = -3$, and $z = 7$.

i) $(-y) + 20$ ii) $(-z) + x - (-16)$ iii) $x - 15$

2) Evaluate the following expressions for $p = -8$, $q = 10$, and $r = -12$.

i) $p - 4 + r$ ii) $q - r - 19$ iii) $(-p) - 16$

3) Evaluate the following expressions for $a = -2$, $b = -4$, and $c = -1$.

i) $(-c) + a - (-b)$ ii) $14 - (-c)$ iii) $a - (-b) + 17$

4) Evaluate the following expressions for $m = 11$ and $n = -6$.

i) $n + 13$ ii) $n - 1 - (-m)$ iii) $m + (-n)$

Name : _____ Score : _____

Integers

Sheet 1

Simplify.

1) $20 + (-4) + 11 + (-1)$

2) $-8 + 15 - (-2)$

3) $19 - (-10) + 2$

4) $-(-6) + 4 - (-13) + 9$

5) $13 - 7 - (-3) - 12$

6) $-(-9) - 11 + 18$

7) $-20 + 16 - 5$

8) $17 + (-7) - 10 + (-19)$

9) $-6 - (-18) + 1 - 14$

10) $3 + (-16) + (-15)$

Name : _____

Order of Operations: Basic

L2ES1

Solve.

1) $5 + 8 \div 2 - 7$

Ans =

2) $12 \times 4 - 42 + 20$

Ans =

3) $4 \div 1 + 8 \times 2$

Ans =

4) $17 \times 3 + 15 \div 3$

Ans =

5) $29 - 4 \times 5 + 14$

Ans =

6) $31 \times 2 - 54 - 3$

Ans =

7) $16 \div 8 + 5 + 17$

Ans =

8) $28 + 4 \times 5 \div 5$

Ans =

9) $32 + 9 \times 6 - 84$

Ans =

10) $62 - 33 \div 3 + 14$

Ans =

Name : _____

Order of Operations: Basic

L3ES1

Solve.

1) $6 + 42 \div 2 - 15$

Ans =

2) $36 - 10 \times 2 \div 5 - 11$

Ans =

3) $25 \times 2 - 42 \div 6 + 18$

Ans =

4) $3 + 32 \div 8 - 5$

Ans =

5) $8 + 9 - 2 \times 3$

Ans =

6) $7 - 6 \times 2 \div 2 + 2$

Ans =

7) $12 \div 2 \times 6 + 4 - 3$

Ans =

8) $63 \div 7 \times 3 - 4$

Ans =

9) $9 + 8 - 2 \times 6$

Ans =

10) $5 + 36 \div 2 \times 3 - 4$

Ans =

Name : _____

One-Step Equations: Integers

Mixed Operations Level 2: S1

Solve each equation.

1) $3 + a = -13$

2) $y - 10 = -5$

3) $-6s = 35$

4) $-5 = -\frac{k}{8}$

5) $m + 2 = -7$

6) $\frac{b}{2} = -1$

7) $7 = t - 3$

8) $18z = -9$

9) $-\frac{p}{6} = 9$

10) $-4 + w = -12$

Name : _____

Two-Step Equations: Whole Numbers

Solve each equation.

1) $9c + 1 = 10$

2) $6y - 5 = 7$

3) $8 = 3a - 4$

4) $\frac{m}{5} + 9 = 11$

5) $13 + 7x = 27$

6) $17 - q = 6$

7) $\frac{n - 31}{4} = 2$

8) $1 + 2r = 35$

9) $42 + 5t = 8t$

10) $4p - 3 = 17$

Name : _____

Two-Step Equations: Integers

Solve each equation.

1) $5n + 5 = 45$

2) $\frac{y}{6} - 3 = -11$

3) $4(g - 1) = 24$

4) $\frac{v + 9}{15} = 0$

5) $-40 = 12x + 8$

6) $-2p - 3 = -19$

7) $13 = \frac{w - 14}{2}$

8) $36 = 1 + 7a$

9) $-9 = -11 + \frac{b}{8}$

10) $2q + 10 = 7q$

Name : _____

Two-Step Equations: Integers

Solve each equation. Verify your answer.

1) $4(a + 1) = 2$

2) $3 - 9x = -6 - 8x$

3) $16 - 7m = 30$

4) $\frac{5 + s}{8} = 5$

5) $-4 + 5r = r$

6) $10y - 6 = 24$

7) $6 = \frac{k}{5} - 2$

8) $-9p = 44 + 2p$

9) $-3w + 7 = -14$

10) $\frac{z - 6}{2} = 8$

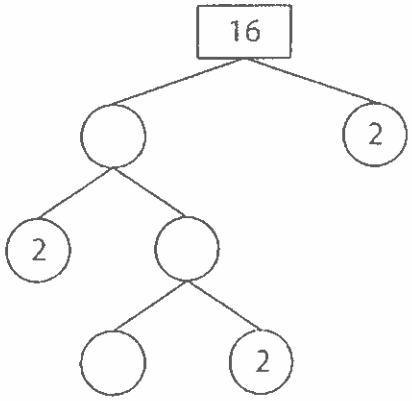
Name : _____ Score : _____

ES1

Prime Factor Tree

Complete the prime factor tree for each number.

1)



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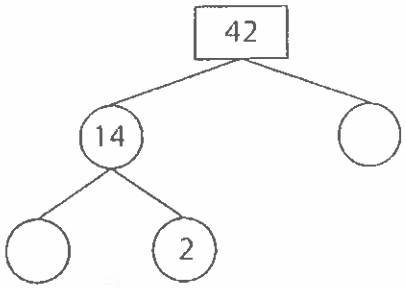

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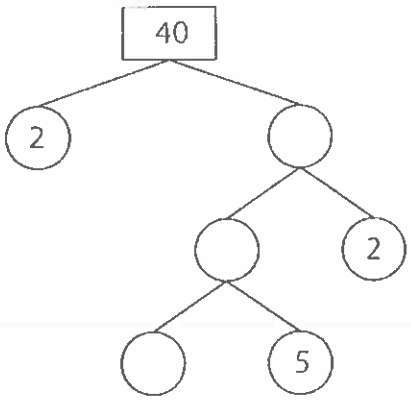

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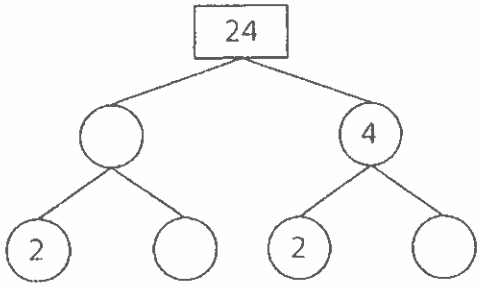

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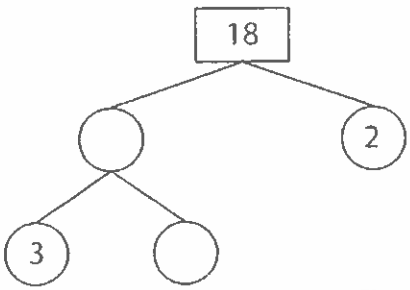

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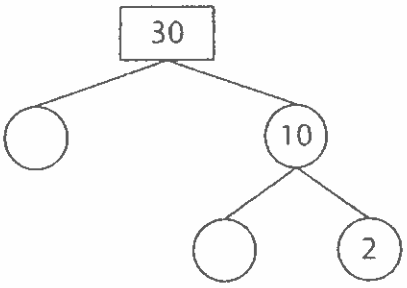


Name : _____ Score : _____

Comparing Integers

Add/Sub: ES1

Compare each pair of integers using the symbols >, < or =.

1) $(-76) - 5$ ☐ -81

2) $50 - (-14)$ ☐ -28

3) $(-64) + 29$ ☐ 37

4) $(-93) - 0$ ☐ -91

5) $43 - (-8)$ ☐ 56

6) $12 + 1$ ☐ 9

7) $56 + 38$ ☐ 94

8) $(-14) - (-99)$ ☐ 85

9) $(-14) - (-91)$ ☐ 46

10) $34 + (-73)$ ☐ -33

11) $10 + (-82)$ ☐ -87

12) $(-96) + 42$ ☐ -54

13) $(-16) + (-25)$ ☐ -15

14) $85 - 7$ ☐ 79

15) $72 - 11$ ☐ 60

16) $(-64) + (-23)$ ☐ -95

Name : _____

Domain and Range - Ordered pairs

Sheet 1

A) Find the domain and range of each relation.

1) {(1, −1), (2, −3), (0, 5), (−1, 3), (4, −5), (−1, 5), (4, −4)}

Domain : _____

Range : _____

2) {(3, −2), (−8, −7), (0, 6), (−3, 4), (6, −3), (−1, 6), (5, −3)}

Domain : _____

Range : _____

3) {(10, −5), (−16, −8), (15, 9), (−4, 19), (6, −7)}

Domain : _____

Range : _____

4) {(5, −4), (7, −9), (0, 9), (−12 , 3), (9, 4), (−6, −3), (8, 2)}

Domain : _____

Range : _____

5) {(17, −9), (10, −5), (8, 3), (8, 4), (6, −14)}

Domain : _____

Range : _____

6) {(5, 5), (3, 8), (5, 4), (7, 5), (13, 8), (6, 2)}

Domain : _____

Range : _____

7) {(19, 12), (11, 5), (2, 2), (−4, 16), (6, 5), (−2, 1), (3, −3)}

Domain : _____

Range : _____

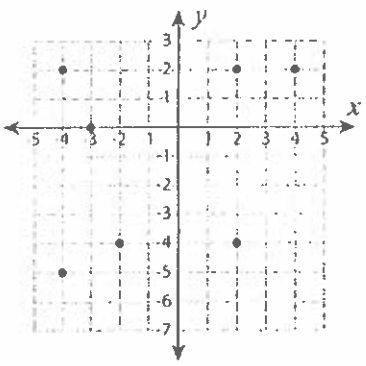
8) {(3, −2), (−3, −2), (1, 4), (−6, 5), (1, 3), (−20, 7)}

Domain : _____

Range : _____

B) Find the domain and range of ordered pairs represented on the graph.

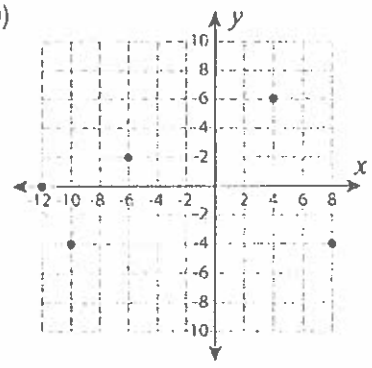
9)



Domain : _____

Range : _____

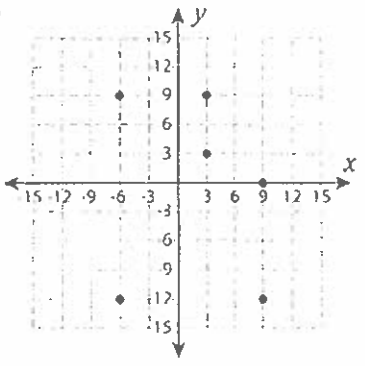
10)



Domain : _____

Range : _____

11)



Domain : _____

Range : _____

Name : _____

Converting Fractions to Percents

L1S1

A) Convert the following fractions to percents.

1) $\frac{1}{10}$ = _____

2) $\frac{9}{20}$ = _____

3) $\frac{2}{5}$ = _____

4) $\frac{1}{2}$ = _____

5) $\frac{53}{50}$ = _____

6) $\frac{7}{4}$ = _____

7) $\frac{8}{25}$ = _____

8) $\frac{27}{20}$ = _____

B) Match each fraction with its equivalent percent.

1) $\frac{5}{2}$	•	• 70%
2) $\frac{7}{10}$	•	• 36%
3) $\frac{9}{25}$	•	• 250%

C) Which of the following is equivalent to $\frac{1}{50}$?

a) 20% b) 3% c) 5% d) 2%