

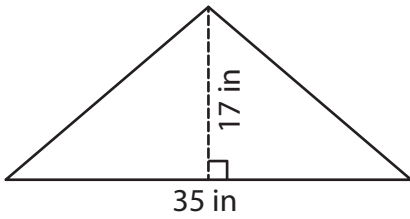
Name : _____

Area – Mixed Shapes

L1S1

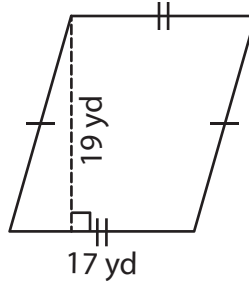
Find the area of each shape.

1)



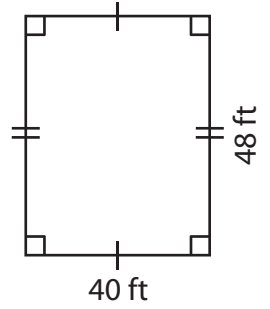
Area = _____

2)



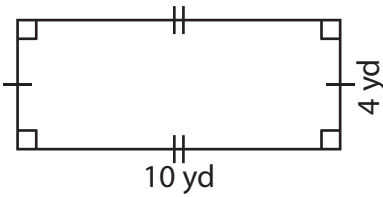
Area = _____

3)



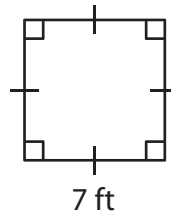
Area = _____

4)



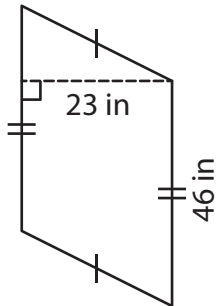
Area = _____

5)



Area = _____

6)



Area = _____

7) The side of a square measures 45 yards. What is the area of the square?

8) Find the area of the triangle whose base is 32 inches and height is 16 inches.

Name : _____

Converting Fractions, Decimals, and Percents

Sheet 1

A) Convert the following.

1) $\frac{1}{2}$

Decimal : _____

Percent : _____

2) 0.8

Percent : _____

Fraction : _____

3) 1.07

Fraction : _____

Percent : _____

4) 70%

Fraction : _____

Decimal : _____

B) Complete the table.

S.no	Fractions	Decimals	Percents
1)	$\frac{2}{5}$		
2)		0.15	
3)			32%

C) Which of the following fractions is equivalent to 0.09?

a) $\frac{9}{10}$

b) $\frac{100}{9}$

c) $\frac{9}{100}$

d) $\frac{10}{9}$

Name: _____

Answer Key**Converting Fractions, Decimals, and Percents**

Sheet 1

A) Convert the following.

1) $\frac{1}{2}$

Decimal : 0.5Percent : 50%

2) 0.8

Percent : 80%Fraction : $\frac{4}{5}$

3) 1.07

Fraction : $\frac{107}{100}$ Percent : 107%

4) 70%

Fraction : $\frac{7}{10}$ Decimal : 0.7

B) Complete the table.

S.no	Fractions	Decimals	Percents
1)	$\frac{2}{5}$	0.4	40%
2)	$\frac{3}{20}$	0.15	15%
3)	$\frac{8}{25}$	0.32	32%

C) Which of the following fractions is equivalent to 0.09?

a) $\frac{9}{10}$

b) $\frac{100}{9}$

c) $\frac{9}{100}$

d) $\frac{10}{9}$

Name : _____

L251

Converting Fractions to Percents

A) Convert the following fractions to percents.

1) $\frac{1}{8} =$ _____

2) $\frac{6}{80} =$ _____

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

7) $\frac{8}{5} =$ _____

5) $\frac{1}{125} =$ _____

6) $\frac{13}{80} =$ _____

7) $\frac{5}{4} =$ _____

8) $\frac{48}{120} =$ _____

B) Match each fraction with its equivalent percent.

1) $\frac{3}{20}$ • • 2.5%

2) $\frac{36}{160}$ • • 15%

3) $\frac{1}{40}$ • • 22.5%

C) Which of the following is equivalent to $\frac{9}{200}$?

a) 405%

b) 4.5%

c) 45%

d) 40.5%

Converting Fractions to Percents

A) Convert the following fractions to percents.

1) $\frac{1}{8} = \underline{12.5\%}$

2) $\frac{6}{80} = \underline{7.5\%}$

3) $\frac{7}{25} = \underline{28\%}$

7) $\frac{8}{5} = \underline{160\%}$

5) $\frac{1}{125} = \underline{0.8\%}$

6) $\frac{13}{80} = \underline{16.25\%}$

7) $\frac{5}{4} = \underline{125\%}$

8) $\frac{48}{120} = \underline{40\%}$

B) Match each fraction with its equivalent percent.

1) $\frac{3}{20}$  2.5%

2) $\frac{36}{160}$  15%

3) $\frac{1}{40}$  22.5%

C) Which of the following is equivalent to $\frac{9}{200}$?

a) 405%

b) 4.5%

c) 45%

d) 40.5%

Name : _____

Order of Operations: Exponents

L2MS1

Solve.

1) $5^2 + 26 \div 2 - 67$

Ans =

2) $16 \times 2^3 - 19 + 3^2$

Ans =

3) $19 - 10 \div 5 + 6^2 \times 2$

Ans =

4) $4^2 \times 3 - 2^4 + 21 \div 7$

Ans =

5) $8^2 + 1 \times 5 - 45$

Ans =

6) $24 \div 3 + 5^3 - 13^2$

Ans =

7) $48 \div 12 - 4^3 + 3$

Ans =

8) $9^2 + 2 \times 3 \div 6 - 49$

Ans =

9) $3 \times 2^5 + 15 - 12^2$

Ans =

10) $8 + 88 \div 11 - 4^3 + 2$

Ans =

Name : _____

One-Step Equations: Integers

Mixed Operations Level 1: S1

Solve each equation.

1) $10 = z + 6$

2) $8y = 48$

3) $q - 12 = 1$

4) $18 = \frac{a}{2}$

5) $\frac{r}{3} = 7$

6) $11 = m - 4$

7) $t - 19 = 2$

8) $1 + s = 3$

9) $24 = 4c$

10) $\frac{v}{5} = 9$

Name : _____

Answer Key

One-Step Equations: Integers

Mixed Operations Level 1: S1

Solve each equation.

1) $10 = z + 6$

$z = 4$

2) $8y = 48$

$y = 6$

3) $q - 12 = 1$

$q = 13$

4) $18 = \frac{a}{2}$

$a = 36$

5) $\frac{r}{3} = 7$

$r = 21$

6) $11 = m - 4$

$m = 15$

7) $t - 19 = 2$

$t = 21$

8) $1 + s = 3$

$s = 2$

9) $24 = 4c$

$c = 6$

10) $\frac{v}{5} = 9$

$v = 45$

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 : _____

Answer Key

One-Step Equations: Integers

Mixed Operations Level 2: S1

Solve each equation.

1) $3 + a = -13$

$a = -16$

2) $y - 10 = -5$

$y = 5$

3) $-6s = 35$

$s = -\frac{35}{6}$ or $-5\frac{5}{6}$

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

$k = 40$

5) $m + 2 = -7$

$m = -9$

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

$b = -2$

7) $7 = t - 3$

$t = 10$

8) $18z = -9$

$z = -\frac{1}{2}$

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

$p = -54$

10) $-4 + w = -12$

$w = -8$

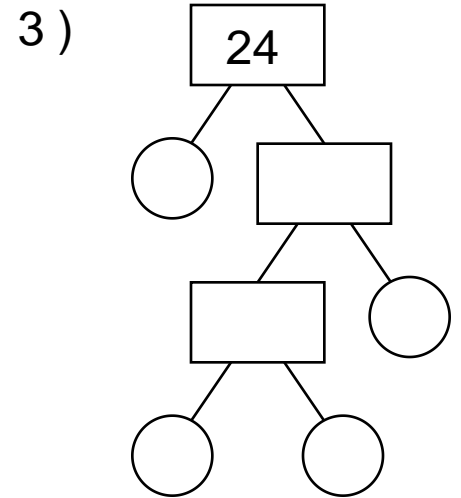
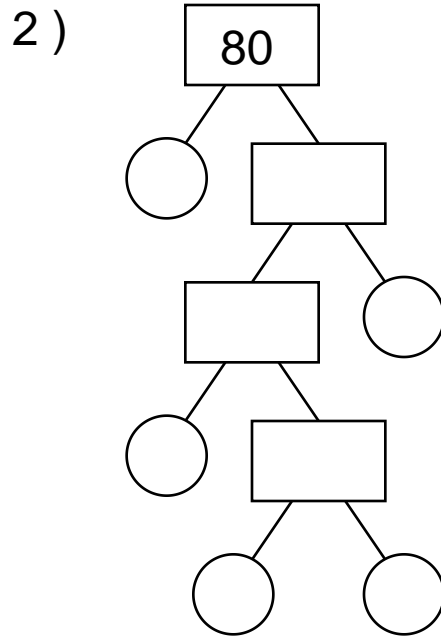
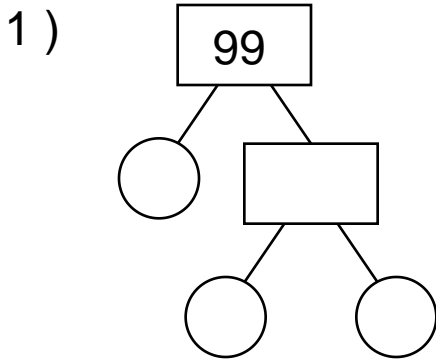
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Date : _____

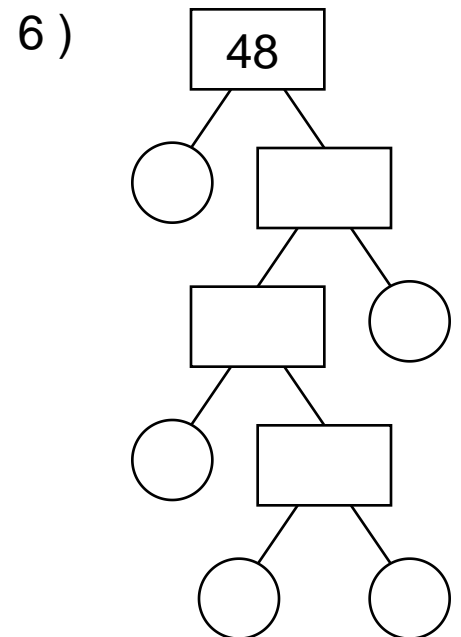
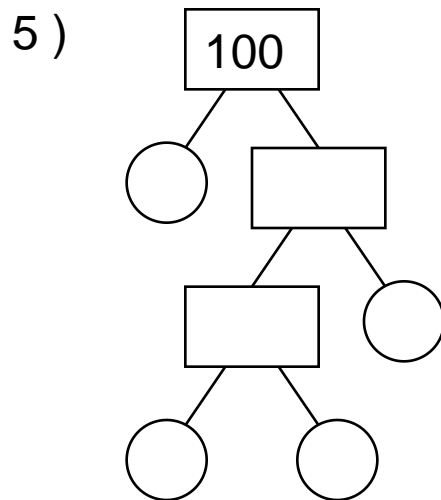
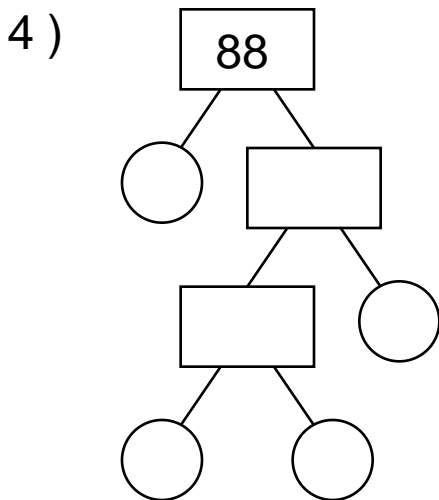
Find the Prime Factors of the Numbers



Prime Factors
_ x _ x _ = 99

Prime Factors
_ x _ x _ x _ x _ = 80

Prime Factors
_ x _ x _ x _ = 24



Prime Factors
_ x _ x _ x _ = 88

Prime Factors
_ x _ x _ x _ = 100

Prime Factors
_ x _ x _ x _ x _ = 48

Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Fractions

1) $\frac{2}{4} \div \frac{2}{3} =$

2) $\frac{2}{10} \div \frac{2}{3} =$

3) $\frac{1}{4} \div \frac{1}{3} =$

4) $\frac{1}{2} \div \frac{8}{10} =$

5) $\frac{6}{10} \div \frac{4}{5} =$

6) $\frac{1}{3} \div \frac{2}{4} =$

7) $\frac{4}{5} \div \frac{1}{2} =$

8) $\frac{3}{10} \div \frac{1}{2} =$

9) $\frac{1}{2} \div \frac{1}{3} =$

10) $\frac{7}{10} \div \frac{3}{5} =$

Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Fractions and Whole Numbers

1) $6 \div \frac{2}{4} =$

2) $\frac{1}{3} \div 8 =$

3) $\frac{1}{2} \div 6 =$

4) $\frac{3}{4} \div 3 =$

5) $7 \div \frac{1}{2} =$

6) $\frac{2}{3} \div 9 =$

7) $3 \div \frac{2}{3} =$

8) $10 \div \frac{1}{2} =$

9) $\frac{2}{4} \div 2 =$

10) $\frac{2}{3} \div 8 =$

11) $\frac{1}{10} \div 6 =$

12) $7 \div \frac{3}{4} =$

13) $\frac{2}{3} \div 10 =$

14) $7 \div \frac{3}{4} =$

15) $\frac{2}{5} \div 4 =$

Name : _____

Score : _____

Teacher : _____

Date : _____

Complete the function table for each equation.

1) $y = x + 9$

x	y
0	
3	
5	
2	
8	

5) $y = 9x$

x	y
8	
9	
3	
4	
0	

9) $y = x + 3$

x	y
7	
3	
0	
9	
5	

2) $y = x - 5$

x	y
5	
8	
7	
6	
1	

6) $y = -2x$

x	y
6	
3	
4	
9	
7	

10) $y = 7x$

x	y
8	
6	
2	
9	
3	

3) $y = 8x$

x	y
9	
3	
8	
2	
1	

7) $y = x - 7$

x	y
9	
7	
3	
6	
0	

11) $y = -3x$

x	y
8	
3	
7	
5	
6	

4) $y = -8x$

x	y
1	
3	
5	
7	
9	

8) $y = x + 6$

x	y
5	
9	
4	
7	
2	

12) $y = x - 9$

x	y
3	
5	
4	
6	
9	



Integers - MCQ

Sheet 1

- 1) Which integer is greater than -5 ?
a) -7 b) -1 c) -9 d) -11





- 2) How many integers are there between -8 and 2 ?
a) 7 b) 4 c) 0 d) 9

- 3) What is the opposite value of the integer 6 ?
a) -6 b) 5 c) 6 d) -4

- 4) Identify the integer that is less than -3 .
a) 0 b) -1 c) -4 d) 2

- 5) Which of the following integers is greater than -1 and lesser than 7 ?
a) -9 b) 5 c) -5 d) 8

- 6) How many pairs of opposite integers are there between -4 and 5 ?
a) 3 b) 8 c) 2 d) 6

- 7) The following data shows the changes in temperatures across various cities from morning to noon. Which city recorded the maximum temperature?
a)  20°C
Atlanta b)  13°C
Chicago c)  12°C
Boston d)  25°C
Houston

Answer key**Integers - MCQ**

Sheet 1

1) Which integer is greater than -5 ?a) -7 b) -1 c) -9 d) -11 2) How many integers are there between -8 and 2 ?a) 7 b) 4 c) 0 d) 9 3) What is the opposite value of the integer 6 ? a) -6 b) 5 c) 6 d) -4 4) Identify the integer that is less than -3 .a) 0 b) -1 c) -4 d) 2 5) Which of the following integers is greater than -1 and lesser than 7 ?a) -9 b) 5 c) -5 d) 8 6) How many pairs of opposite integers are there between -4 and 5 ? a) 3 b) 8 c) 2 d) 6

7) The following data shows the changes in temperatures across various cities from morning to noon. Which city recorded the maximum temperature?

a)  20°C
Atlantab)  13°C
Chicagoc)  12°C
Boston d)  25°C
Houston

Integers

L2S1

Simplify.

1) $(-92) - 37 =$ _____

2) $44 + 65 =$ _____

3) $79 + (-52) =$ _____

4) $(-8) \times (-11) =$ _____

5) $4 \times 14 =$ _____

6) $28 \div (-2) =$ _____

7) $(-16) \div (-4) =$ _____

8) $(-31) + 50 =$ _____

9) $(-3) \times 17 =$ _____

10) $(-57) - (-29) =$ _____

11) $40 \div 5 =$ _____

12) $19 \times (-9) =$ _____

13) $(-25) + (-77) =$ _____

14) $76 - 34 =$ _____

15) $12 - (-63) =$ _____

16) $(-21) \div 3 =$ _____

Answer key**Integers**

L2S1

Simplify.

1) $(-92) - 37 = \underline{-129}$

2) $44 + 65 = \underline{109}$

3) $79 + (-52) = \underline{27}$

4) $(-8) \times (-11) = \underline{88}$

5) $4 \times 14 = \underline{56}$

6) $28 \div (-2) = \underline{-14}$

7) $(-16) \div (-4) = \underline{4}$

8) $(-31) + 50 = \underline{19}$

9) $(-3) \times 17 = \underline{-51}$

10) $(-57) - (-29) = \underline{-28}$

11) $40 \div 5 = \underline{8}$

12) $19 \times (-9) = \underline{-171}$

13) $(-25) + (-77) = \underline{-102}$

14) $76 - 34 = \underline{42}$

15) $12 - (-63) = \underline{75}$

16) $(-21) \div 3 = \underline{-7}$

Name : _____

Mean, Median, Mode & Range

Level 1: S1

Find the mean, median, mode and range for each set of numbers.

1) 24, 31, 12, 38, 12, 15

Mean : _____ Median : _____

Mode : _____ Range : _____

2) 5, 28, 16, 32, 5, 16, 48, 29, 5, 35

Mean : _____ Median : _____

Mode : _____ Range : _____

3) 53, 13, 34, 41, 26, 61, 34, 13, 69

Mean : _____ Median : _____

Mode : _____ Range : _____

4) 85, 58, 72, 85, 46, 93

Mean : _____ Median : _____

Mode : _____ Range : _____

5) 92, 63, 22, 80, 63, 71, 44, 35

Mean : _____ Median : _____

Mode : _____ Range : _____

6) 39, 82, 74, 96, 64, 52, 74

Mean : _____ Median : _____

Mode : _____ Range : _____

7) 72, 43, 15, 66, 32, 72, 52, 19, 28, 81

Mean : _____ Median : _____

Mode : _____ Range : _____

8) 40, 90, 36, 68, 90, 11, 88, 54

Mean : _____ Median : _____

Mode : _____ Range : _____

9) 12, 46, 32, 18, 26, 41, 46

Mean : _____ Median : _____

Mode : _____ Range : _____

10) 63, 40, 51, 70, 36, 21, 51, 28, 19

Mean : _____ Median : _____

Mode : _____ Range : _____

Opposite Integers

Sheet 1

A) Write the opposite value of each integer.

1) Opposite of 12 _____

2) Opposite of -25 _____

3) Opposite of -99 _____

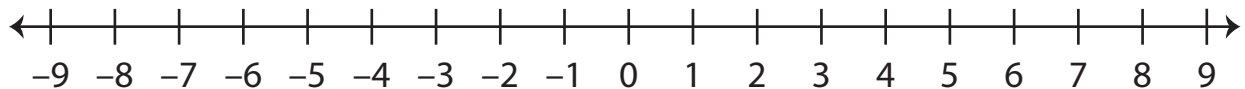
4) Opposite of 4 _____

5) Opposite of 36 _____

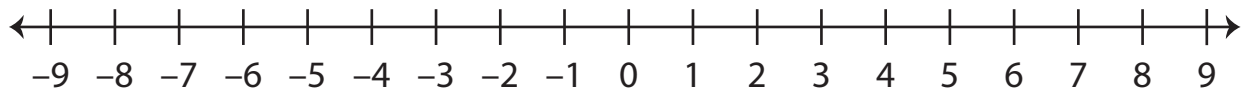
6) Opposite of -57 _____

B) Mark each integer given below and its opposite value on the number line.

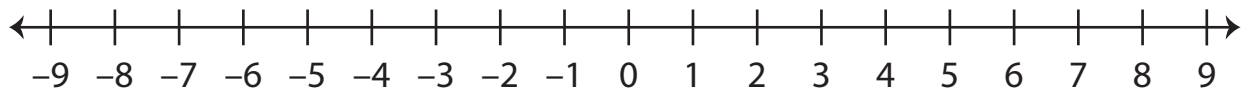
1) 2



2) -5



3) 1



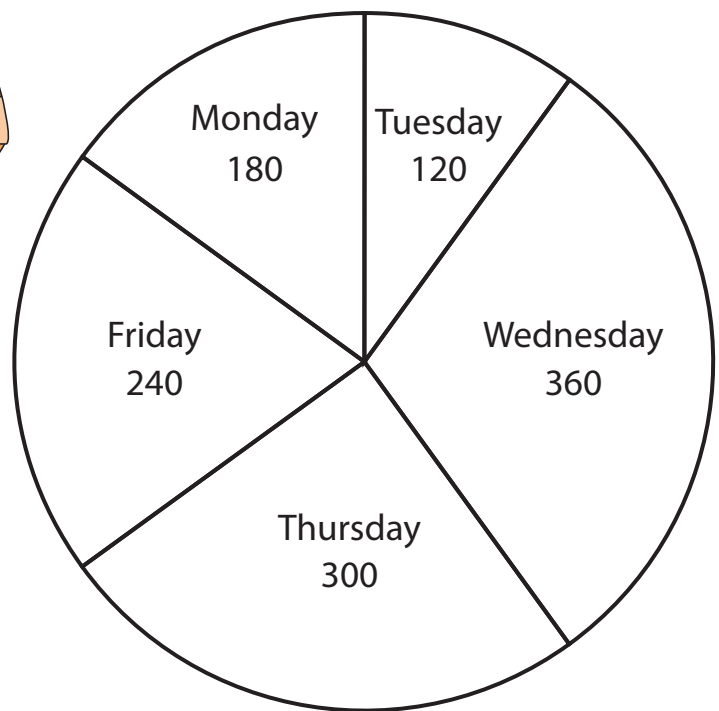
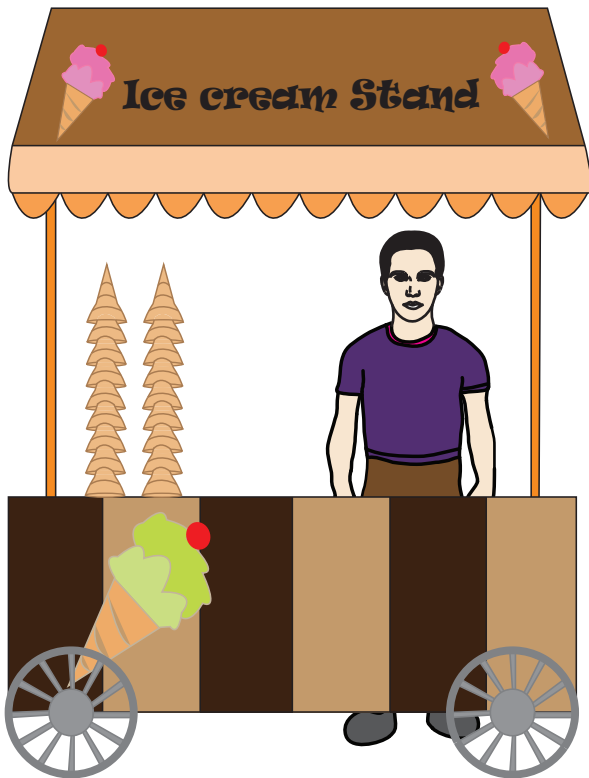
C) Evaluate each expression.

1) Opposite of $-(-24)$ _____2) Opposite of $+(-8)$ _____3) Opposite of $+(+15)$ _____4) Opposite of $-(+33)$ _____5) Opposite of $+(-40)$ _____6) Opposite of $-(-6)$ _____

Name : _____

Pie Graph - Icecream Sales

John, an ice cream seller sells ice cream during weekdays. The pie graph display the number of ice cream sold. Study the pie graph and answer the questions.



1. What is the percentage of ice cream sold on Thursday? _____
2. What are the two days that equal the sales on Wednesday? _____
3. When did John sell most of the ice cream in his stand? _____
4. On which day 300 ice creams were sold? _____
5. What is the difference in percentage of ice cream sold between Wednesday and Friday? _____

Plotting Points

All quadrants: S3

A) Plot each point on the coordinate grid.

1) P(-4, 1)

2) E(5, 2)

3) R(-2, -5)

4) I(1, -3)

5) M(-4, 4)

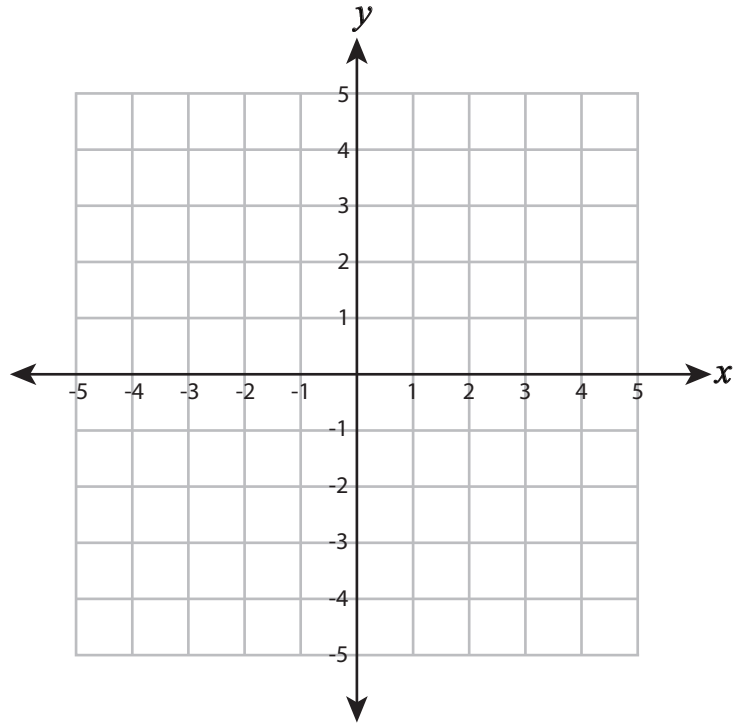
6) D(0, -1)

7) H(-2, 5)

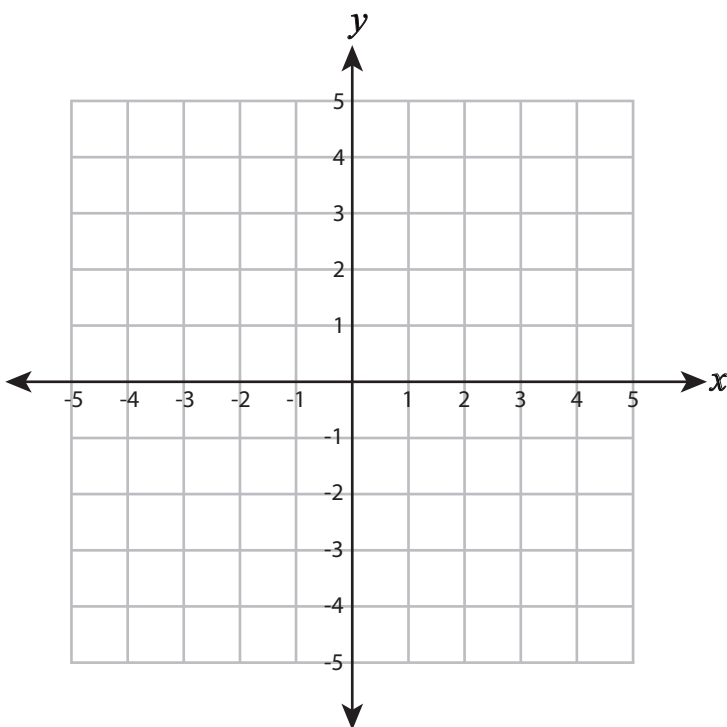
8) G(-4, -3)

9) L(3, -3)

10) X(2, 2)



B) Draw each shape on the coordinate grid.



11) Draw ○ at (3, -4)

12) Draw ☆ at (-5, 5)

13) Draw □ at (3, 0)

14) Draw △ at (-1, -4)

15) Draw □ at (4, 4)

Name : _____

Score : _____

Teacher : _____

Date : _____

Working with the Properties of Mathematics

1) Which equation shows the Addition Property of Zero ?

A. $a + 0 = a$

B. $(a + b) + 7 = a + (7 + b)$ _____

C. $a \times 0 = 0$

D. $a(b + c) = ab + ac$ _____

2) Which property is used in the following expression ? $(a \times b) \times c = a \times (b \times c)$

A. Associative Property of Addition

B. Distributive Property _____

C. Commutative Property of Addition

D. Associative Property of Multiplication _____

3) Which of the following does not show the Commutative Property ?

A. $x + y = y + x$

B. $yx = xy$ _____

C. $7 + y = y + 7$

D. $xy - 2 = xy$ _____

4) Which property is used in the following expression ? $3(8 + 5) = 24 + 15$

A. Associative Property of Multiplication

B. Associative Property of Addition _____

C. Commutative Property of Addition

D. Distributive Property _____

5) Simplify this expression : $4(y + z)$

A. $4yz$

B. $4y + 4z$ _____

C. $4z + y$

D. $4y + z$ _____

6) Which Property of Multiplication is shown ? $(6 + 5) \times 2 = 6 \times 2 + 5 \times 2$

A. Commutative Property

B. Identity Property _____

C. Distributive Property

D. Associative Property _____

7) Which is an example of Associative Property of Addition ?

A. $8 + 7 = 7 + 8$

B. $(7 + 5) + 9 = 7 + (5 + 9)$ _____

C. $4 + 0 = 4$

D. $2 + (-2) = 0$ _____

8) Which of the following is an example of Commutative Property of Addition ?

A. $(6 + 4) + 3 = 6 + (4 + 3)$

B. $9 + 6 = 6 + 9$ _____

C. $7 \times 1 = 7$

D. $2 + 5 = 8 + 2$ _____

9) Which property is used in the following ? $5 \times (3 + 4) = 5 \times 3 + 5 \times 4$

A. Commutative Property

B. Associative Property _____

C. Distributive Property

D. None of the above _____

10) Which operation will not change the value of any nonzero number ?

A. Multiplying by Zero

B. Adding Zero _____

C. Adding One

D. Dividing by Zero _____



Name : _____

Score : _____

Teacher : _____

Date : _____

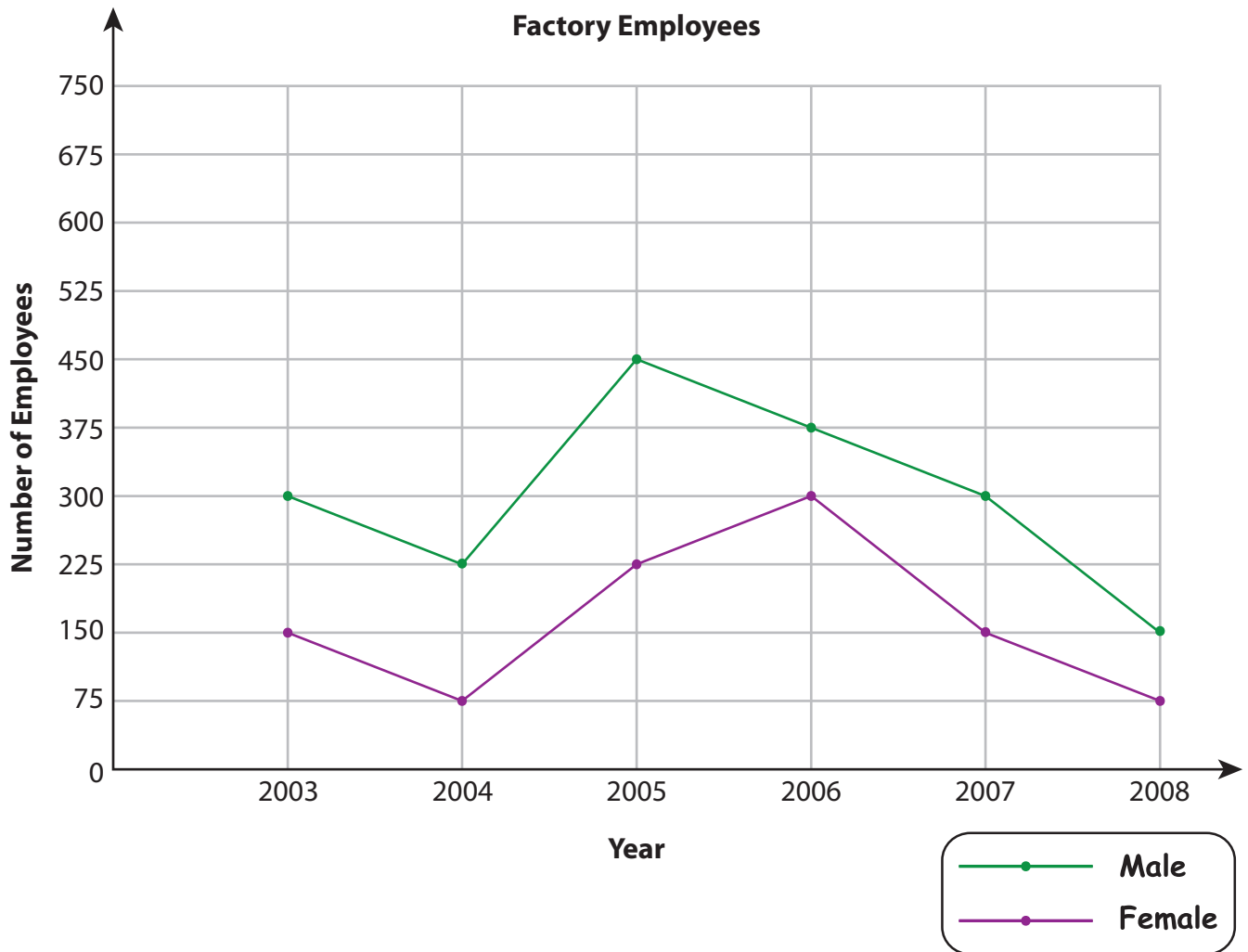
Working with the Properties of Mathematics

- 11) Which property is used in the following expression ? $(2 \times 4) \times 7 = 4 \times (7 \times 2)$
- A. Associative Property of Multiplication B. Associative Property of Addition _____
C. Commutative Property of Addition D. Distributive Property of Multiplication _____
- 12) Which property of addition is used in the following ? $(2 + 9) + 8 = 2 + (9 + 8)$
- A. Associative Property B. Distributive Property _____
C. Identity Property D. Commutative Property _____
- 13) Which property would you use to simplify the following expression ? $5(y + 6)$
- A. Distributive Property B. Associative Property _____
C. Commutative Property D. Multiplication Property of Zero _____
- 14) Which of the following does not show the Commutative Property of Addition ?
- A. $9 + x = x + 9$ B. $ab = ba$ _____
C. $a + b = b + a$ D. $3x + 4y = 4y + 3x$ _____
- 15) Which equation shows the Zero Property of Multiplication ?
- A. $6 \times 0 = 0$ B. $4 \times 1 = 4$ _____
C. $7 \times 3 = 3 \times 7$ D. $8 + 8 + 8 = 3 \times 8$ _____
- 16) Which equation shows the Commutative Property of Multiplication ?
- A. $7 \times 1 = 7$ B. $6 \times 4 - 9 \times 4 = (6 - 9) \times 2$ _____
C. $3 \times 8 = 8 \times 3$ D. $2 \times 3 = 2 + 2 + 2$ _____
- 17) The value of any nonzero number will be changed by _____ .
- A. multiplying by zero B. dividing by one _____
C. adding zero D. multiplying by one _____



Double Line Graph - Factory Employees

A production company has both male and female staff working in the assembly unit. The graph shows the number of male and female employees in the company from 2003 to 2008. Read the graph and answer the questions.



- 1) Which year had the most number of female employees? _____
- 2) How many employees worked in the year 2003? _____
- 3) Which year had 225 male and female employees altogether? _____
- 4) What is the difference on the number of male and female employees during the year 2004? _____
- 5) Were the number of male employees more compared to the female employees in the year 2005? Yes or No. _____

Name : _____

Standard and Scientific Notations

Positive: MS2

A) Express each number in scientific notation.

1) 3,001,500,000,000 = _____

2) 1,020,000 = _____

3) 75,820,000 = _____

4) 256,000,000,000 = _____

5) 541,000,000 = _____

B) Express each number in standard notation.

1) 1×10^{13} = _____

2) 7.0128×10^{15} = _____

3) 9.25×10^9 = _____

4) 1.562×10^6 = _____

5) 4.2×10^{11} = _____

Name : _____

Answer Key

Positive: MS2

Standard and Scientific Notations

A) Express each number in scientific notation.

1) 3,001,500,000,000 = 3.0015 × 10¹²

2) 1,020,000 = 1.02 × 10⁶

3) 75,820,000 = 7.582 × 10⁷

4) 256,000,000,000 = 2.56 × 10¹¹

5) 541,000,000 = 5.41 × 10⁸

B) Express each number in standard notation.

1) 1×10^{13} = 10,000,000,000,000

2) 7.0128×10^{15} = 7,012,800,000,000,000

3) 9.25×10^9 = 9,250,000,000

4) 1.562×10^6 = 1,562,000

5) 4.2×10^{11} = 420,000,000,000

Name _____ Date _____

Simplify each radical.

$$\sqrt{100} =$$

$$\sqrt{81} =$$

$$\sqrt{36} =$$

$$\sqrt{121} =$$

$$\sqrt[3]{125} =$$

$$\sqrt[3]{1000} =$$

$$\sqrt{144} =$$

$$\sqrt[3]{64} =$$

$$\sqrt[3]{8} =$$

$$\sqrt{64} =$$

Name : _____

Squaring Numbers

Whole Numbers: S1

A) Find the values of the following.

1) 7^2

2) 13^2

3) 4^2

4) 25^2

5) 42^2

6) 10^2

B) Find the squares of the following numerals.

1) 5

2) 49

3) 17

4) 21

5) 3

6) 34

C) 1) Which of the following is the square of 20?

i) 40

ii) 200

iii) 400

iv) 220

2) Which of the following is equal to 44^2 ?

i) 1,936

ii) 1,863

iii) 1,369

iv) 1,963

Answer key

Name : _____

Squaring Numbers

Whole Numbers: S1

A) Find the values of the following.

1) 7^2

49

2) 13^2

169

3) 4^2

16

4) 25^2

625

5) 42^2

1,764

6) 10^2

100

B) Find the squares of the following numerals.

1) 5

25

2) 49

2,401

3) 17

289

4) 21

441

5) 3

9

6) 34

1,156

C) 1) Which of the following is the square of 20?

i) 40

ii) 200

iii) 400

iv) 220

2) Which of the following is equal to 44^2 ?

i) 1,936

ii) 1,863

iii) 1,369

iv) 1,963

Name _____ Date _____

Fill in the measures of the unknown angles.

