Math Practice - Grade 6

M1 Multi digit division and decimal fluency

M1 6.NS.B.2, 6.NS.B.3

Name: _____ Date: _____

Divide with a two digit divisor. Add, subtract, multiply, and divide decimals. Line up the decimal points.

1 **Divide. Write the quotient and the remainder.**

$$81 \overline{)24443} \quad \square\square\square \text{ R } \square$$

2 **Add.**

$$\begin{array}{r} 0.406 \\ + \quad 1.772 \\ \hline \square \end{array}$$

3 **Multiply.**

$$3.8 \times 3.2 = \square$$

Answer Key

1. 301 R 62 2. 2.178 3. 12.16

Math Practice - Grade 6

M1 Multi digit division and decimal fluency

M1 6.NS.B.2, 6.NS.B.3

Name: _____ Date: _____

Divide with a two digit divisor. Add, subtract, multiply, and divide decimals. Line up the decimal points.

1 **Divide. Write the quotient and the remainder.**

$$46 \overline{)45167} \quad \square\square\square \text{ R } \square$$

2 **Add.**

$$\begin{array}{r} 4.516 \\ + \quad 7.188 \\ \hline \square \end{array}$$

3 **Multiply.**

$$5.3 \times 9.3 = \square$$

Answer Key

1. 981 R 41
2. 11.704
3. 49.29

Math Practice - Grade 6

M1 Multi digit division and decimal fluency

M1 6.NS.B.2, 6.NS.B.3

Name: _____ Date: _____

Divide with a two digit divisor. Add, subtract, multiply, and divide decimals. Line up the decimal points.

1 **Divide. Write the quotient and the remainder.**



2 **Subtract.**

$$\begin{array}{r} 7.228 \\ -\ 1.828 \\ \hline \square \end{array}$$

3 **Multiply.**

$4.9 \times 8.5 = \square$

Answer Key

1. 556 R 45 2. 5.4 3. 41.65

Math Practice - Grade 6

M2 Dividing fractions by fractions, GCF, LCM

M2 6.NS.A.1, 6.NS.B.4

Name: _____ Date: _____

Divide a fraction by a fraction. Find the greatest common factor and the least common multiple. Rewrite a sum as a product.

1 **Divide. Write the answer in the box.**

$$\frac{1}{4} \;/\; \frac{5}{11} = \frac{\square}{\square}$$

---

2 **Find the greatest common factor of 69 and 4.**

$$\text{GCF}(69, 4) = \square$$

---

3 **Find the least common multiple of 8 and 9.**

$$\text{LCM}(8, 9) = \square$$

Answer Key

1. 11/20 2. 1 3. 72

Math Practice - Grade 6

M2 Dividing fractions by fractions, GCF, LCM

M2 6.NS.A.1, 6.NS.B.4

Name: _____ Date: _____

Divide a fraction by a fraction. Find the greatest common factor and the least common multiple. Rewrite a sum as a product.

1 **Divide. Write the answer in the box.**

$$\frac{1}{4} \quad / \quad \frac{2}{8} \quad = \quad \square$$

---

2 **Find the greatest common factor of 82 and 27.**

$$\text{GCF}(82, 27) = \square$$

---

3 **Find the least common multiple of 3 and 12.**

$$\text{LCM}(3, 12) = \square$$

Answer Key

1. 1 2. 1 3. 12

Math Practice - Grade 6

M2 Dividing fractions by fractions, GCF, LCM

M2 6.NS.A.1, 6.NS.B.4

Name: _____ Date: _____

Divide a fraction by a fraction. Find the greatest common factor and the least common multiple. Rewrite a sum as a product.

1 **Divide. Write the answer in the box.**

$$\frac{2}{7} \;/\; \frac{2}{12} = \square\frac{\square}{\square}$$

---

2 **Find the greatest common factor of 54 and 71.**

$$\text{GCF}(54, 71) = \square$$

---

3 **Find the least common multiple of 5 and 9.**

$$\text{LCM}(5, 9) = \square$$

Answer Key

1. 1 5/7 2. 1 3. 45

Math Practice - Grade 6

M3 Ratios and unit rates

M3 6.RP.A.1, 6.RP.A.2, 6.RP.A.3, 6.RP.A.3a, 6.RP.A.3b

Name: _____ Date: _____

Write a ratio in three ways. Find the unit rate. Fill in the missing value in the ratio table. Solve the unit price and speed problems.

1 **There are 1 red counters and 12 blue counters. Write the ratio of red to blue in three ways.**

2 **27 for 3 pens. What is the cost of 1 pen?**

27 / 3 = ☐

3 **Fill in the missing value in the ratio table.**

Cups of flour	Cups of sugar
4	4
8	8
12	12
16	☐

Answer Key

1. 1 to 12, 1:12, 1/12 2. 9 per pen 3. 16

Math Practice - Grade 6

M3 Ratios and unit rates

M3 6.RP.A.1, 6.RP.A.2, 6.RP.A.3, 6.RP.A.3a, 6.RP.A.3b

Name: _____ Date: _____

Write a ratio in three ways. Find the unit rate. Fill in the missing value in the ratio table. Solve the unit price and speed problems.

1 **There are 7 red counters and 3 blue counters. Write the ratio of red to blue in three ways.**

---

2 **48 for 8 pens. What is the cost of 1 pen?**

48 / 8 = ☐

---

3 **Fill in the missing value in the ratio table.**

Cups of flour	Cups of sugar
9	1
18	2
27	3
☐	4

Answer Key

1. 7 to 3, 7:3, 7/3 2. 6 per pen 3. 36

Math Practice - Grade 6

M3 Ratios and unit rates

M3 6.RP.A.1, 6.RP.A.2, 6.RP.A.3, 6.RP.A.3a, 6.RP.A.3b

Name: _____ Date: _____

Write a ratio in three ways. Find the unit rate. Fill in the missing value in the ratio table. Solve the unit price and speed problems.

1 There are 2 red counters and 6 blue counters. Write the ratio of red to blue in three ways.

---

2 A car travels 30 miles in 3 hours. What is the speed in miles per hour?

30 / 3 = ☐

---

3 Fill in the missing value in the ratio table.

Cups of flour	Cups of sugar
7	6
☐	12
21	18
28	24

Answer Key

1. 2 to 6, 2:6, 2/6 2. 10 miles per hour 3. 14

Math Practice - Grade 6

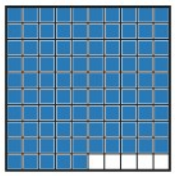
M4 Percent and measurement conversion

M4 6.RP.A.3c, 6.RP.A.3d

Name: _____ Date: _____

Find a percent of a quantity. Find the whole when a part and a percent are given. Convert the measurement.

1 **Find 95% of 220.**



95%

95% of 220 = ☐

---

2 **176 is 80% of what number?**

176 / 80% = ☐

---

3 **Convert 30 feet to inches.**

30 feet = ☐

Answer Key

1. 209 2. 220 3. 360 inches

Math Practice - Grade 6

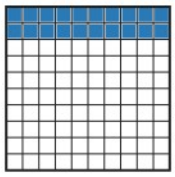
M4 Percent and measurement conversion

M4 6.RP.A.3c, 6.RP.A.3d

Name: _____ Date: _____

Find a percent of a quantity. Find the whole when a part and a percent are given. Convert the measurement.

1 **Find 20% of 400.**



20%

20% of 400 = ☐

---

2 **253 is 55% of what number?**

253 / 55% = ☐

---

3 **Convert 56 feet to inches.**

56 feet = ☐

Answer Key

1. 80 2. 460 3. 672 inches

Math Practice - Grade 6

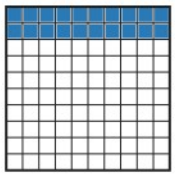
M4 Percent and measurement conversion

M4 6.RP.A.3c, 6.RP.A.3d

Name: _____ Date: _____

Find a percent of a quantity. Find the whole when a part and a percent are given. Convert the measurement.

1 **Find 20% of 40.**



20%

20% of 40 = ☐

---

2 **360 is 90% of what number?**

360 / 90% = ☐

---

3 **Convert 6 feet to yards.**

6 feet = ☐

Answer Key

1. 8 2. 400 3. 2 yards

Math Practice - Grade 6

M5 Negative numbers and the rational number system

M5 6.NS.C.5, 6.NS.C.6, 6.NS.C.6a, 6.NS.C.6b, 6.NS.C.6c, 6.NS.C.7, 6.NS.C.7a, 6.NS.C.7b, 6.NS.C.7c, 6.NS.C.7d

Name: _____ Date: _____

Write the opposite of a number. Read the number marked on the number line. Order the numbers from least to greatest. Compare the numbers. Find the absolute value.

1 **Write the opposite of -41.**

Opposite of -41 = ☐

---

2 **What number is marked on the number line?**



☐

---

3 **Write the numbers in order from least to greatest.**

17, 34, 19, -58

☐

Answer Key

1. 41 2. -5 3. -58, 17, 19, 34

Math Practice - Grade 6

M5 Negative numbers and the rational number system

M5 6.NS.C.5, 6.NS.C.6, 6.NS.C.6a, 6.NS.C.6b, 6.NS.C.6c, 6.NS.C.7, 6.NS.C.7a, 6.NS.C.7b, 6.NS.C.7c, 6.NS.C.7d

Name: _____ Date: _____

Write the opposite of a number. Read the number marked on the number line. Order the numbers from least to greatest. Compare the numbers. Find the absolute value.

1 **Write the opposite of 27.**

Opposite of 27 = ☐

---

2 **What number is marked on the number line?**



☐

---

3 **Write the numbers in order from least to greatest.**

-62, -79, 69, -53

☐

Answer Key

1. -27 2. -2 3. -79, -62, -53, 69

Math Practice - Grade 6

M5 Negative numbers and the rational number system

M5 6.NS.C.5, 6.NS.C.6, 6.NS.C.6a, 6.NS.C.6b, 6.NS.C.6c, 6.NS.C.7, 6.NS.C.7a, 6.NS.C.7b, 6.NS.C.7c, 6.NS.C.7d

Name: _____ Date: _____

Write the opposite of a number. Read the number marked on the number line. Order the numbers from least to greatest. Compare the numbers. Find the absolute value.

1 **Write the opposite of 7.**

Opposite of 7 = ☐

---

2 **What number is marked on the number line?**



☐

---

3 **Write the numbers in order from least to greatest.**

-75, -36, -29, -43

☐

Answer Key

1. -7 2. 10 3. -75, -43, -36, -29

Math Practice - Grade 6

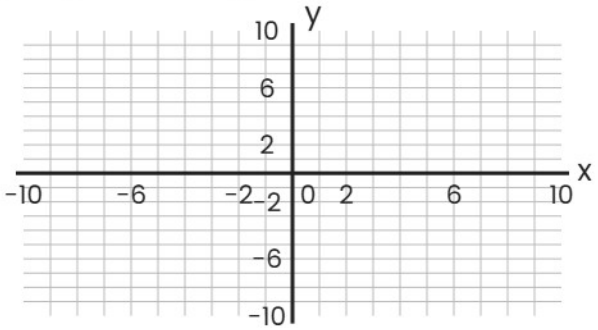
M6 The coordinate plane

M6 6.NS.C.8, 6.G.A.3

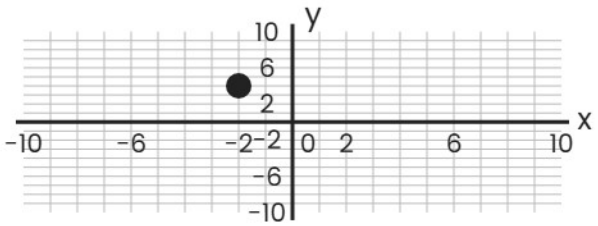
Name: _____ Date: _____

Plot the point on the grid. Name the quadrant of the plotted point. Find the distance between the two points. Draw the polygon and find the side length.

1 **Plot the point (-5, -7) on the grid.**

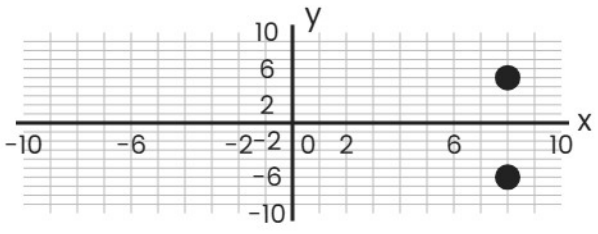


2 **In which quadrant is the plotted point? Circle it.**



I II III IV

3 **Find the distance between (8, -6) and (8, 5).**



Answer Key

1. (-5, -7) 2. II 3. 11

Math Practice - Grade 6

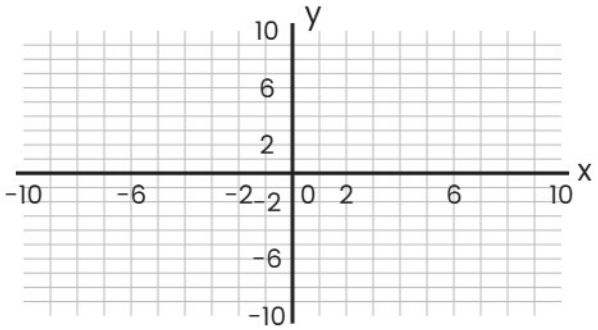
M6 The coordinate plane

M6 6.NS.C.8, 6.G.A.3

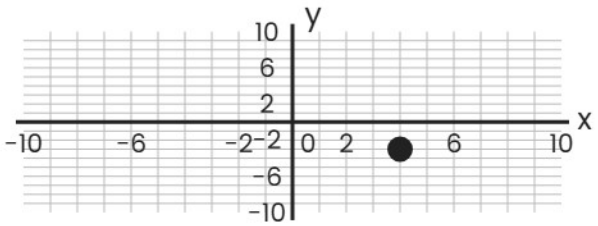
Name: _____ Date: _____

Plot the point on the grid. Name the quadrant of the plotted point. Find the distance between the two points. Draw the polygon and find the side length.

1 **Plot the point (-7, -7) on the grid.**

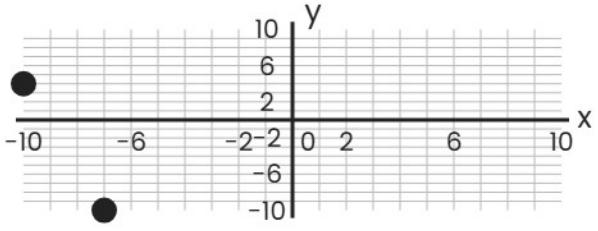


2 **In which quadrant is the plotted point? Circle it.**



I II III IV

3 **Find the distance between (-7, -10) and (-10, 4).**



Answer Key

1. (-7, -7) 2. IV 3. 14.32

Math Practice - Grade 6

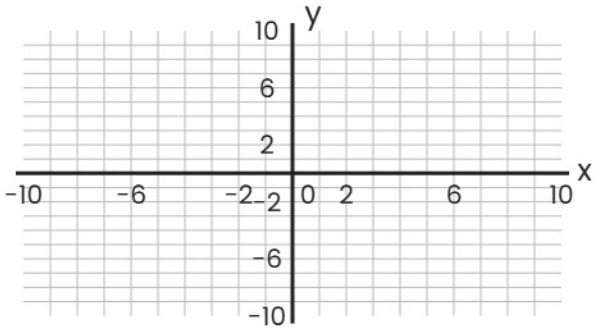
M6 The coordinate plane

M6 6.NS.C.8, 6.G.A.3

Name: _____ Date: _____

Plot the point on the grid. Name the quadrant of the plotted point. Find the distance between the two points. Draw the polygon and find the side length.

1 **Plot the point (3, 9) on the grid.**



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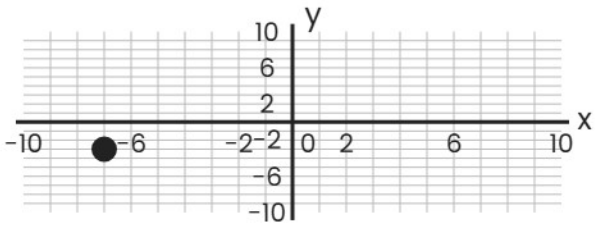
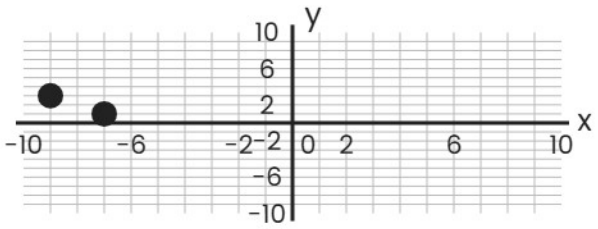
2 **In which quadrant is the plotted point? Circle it.**



I II III IV

---

3 **Find the distance between (-7, 1) and (-9, 3).**



Answer Key

1. (3, 9) 2. III 3. 2.83

Math Practice - Grade 6

M7 Expressions, exponents, order of operations

M7 6.EE.A.1, 6.EE.A.2, 6.EE.A.2a, 6.EE.A.2b, 6.EE.A.2c

Name: _____ Date: _____

Write the power as repeated multiplication and work it out. Write the expression the words describe. Name the part of the expression. Work out the expression for the given value.

1 Write 10 to the power 2 as repeated multiplication, then work it out.

$10 \times 10 =$ ☐

---

2 Write the expression the words describe: The product of 6 and x.

☐

---

3 How many terms does 5x + 4x + 4 have?

☐

Answer Key

1. 100 2. 6 x x 3. 3

Math Practice - Grade 6

M7 Expressions, exponents, order of operations

M7 6.EE.A.1, 6.EE.A.2, 6.EE.A.2a, 6.EE.A.2b, 6.EE.A.2c

Name: _____ Date: _____

Write the power as repeated multiplication and work it out. Write the expression the words describe. Name the part of the expression. Work out the expression for the given value.

1 Write 2 to the power 3 as repeated multiplication, then work it out.

$2 \times 2 \times 2 =$ ☐

---

2 Write the expression the words describe: y divided by 5.

☐

---

3 Name one factor in 9x x 2.

☐

Answer Key

1. 8 2. y / 5 3. 9x

Math Practice - Grade 6

M7 Expressions, exponents, order of operations

M7 6.EE.A.1, 6.EE.A.2, 6.EE.A.2a, 6.EE.A.2b, 6.EE.A.2c

Name: _____ Date: _____

Write the power as repeated multiplication and work it out. Write the expression the words describe. Name the part of the expression. Work out the expression for the given value.

1 Write 9 to the power 2 as repeated multiplication, then work it out.

$9 \times 9 =$ ☐

---

2 Write the expression the words describe: Twice x, plus 12.

☐

---

3 How many terms does 8y + 5y + 5 have?

☐

Answer Key

1. 81 2. 2 x x + 12 3. 3

Math Practice - Grade 6

M8 Equivalent expressions

M8 6.EE.A.3, 6.EE.A.4

Name: _____ Date: _____

Expand with the distributive property. Factor out the common factor. Combine the like terms. Test whether the two expressions are equivalent.

1 **Expand 2 (8 + y).**

$$2\,(8 + y) = \square$$

---

2 **Factor 27y + 12.**

$$27y + 12 = \square$$

---

3 **Combine the like terms in 5y + 1 + 4y.**

$$5y + 1 + 4y = \square$$

Answer Key

1. 16 + 2y 2. 3 (9y + 4) 3. 9y + 1

Math Practice - Grade 6

M8 Equivalent expressions

M8 6.EE.A.3, 6.EE.A.4

Name: _____ Date: _____

Expand with the distributive property. Factor out the common factor. Combine the like terms. Test whether the two expressions are equivalent.

1 **Expand 5 (9 + y).**

$5\ (9 + y) =$ ☐

---

2 **Factor 45y + 15.**

$45y + 15 =$ ☐

---

3 **Combine the like terms in 9x + 6 + 9x.**

$9x + 6 + 9x =$ ☐

Answer Key

1. 45 + 5y 2. 15 (3y + 1) 3. 18x + 6

Math Practice - Grade 6

M8 Equivalent expressions

M8 6.EE.A.3, 6.EE.A.4

Name: _____ Date: _____

Expand with the distributive property. Factor out the common factor. Combine the like terms. Test whether the two expressions are equivalent.

1 **Expand 8 (9 + y).**

$$8\,(9 + y) = \square$$

---

2 **Factor 12y + 27.**

$$12y + 27 = \square$$

---

3 **Combine the like terms in 4y + 5 + 2y.**

$$4y + 5 + 2y = \square$$

Answer Key

1. 72 + 8y 2. 3 (4y + 9) 3. 6y + 5

Math Practice - Grade 6

M9 Equations and inequalities

M9 6.EE.B.5, 6.EE.B.6, 6.EE.B.7, 6.EE.B.8

Name: _____ Date: _____

Test whether the number is a solution. Solve the equation. Write the inequality the words describe and graph it on the number line.

1 **Is 10 a solution of x + 1 = 8? Circle Yes or No.**

$10 + 1 = 11 \quad x + 1 = 8$

Yes No

---

2 **Solve x + 4 = 18.**

$x + 4 = 18 \quad x =$ ☐

---

3 **Solve 6x = 66.**

$6x = 66 \quad x =$ ☐

Answer Key

1. No 2. 14 3. 11

Math Practice - Grade 6

M9 Equations and inequalities

M9 6.EE.B.5, 6.EE.B.6, 6.EE.B.7, 6.EE.B.8

Name: _____ Date: _____

Test whether the number is a solution. Solve the equation. Write the inequality the words describe and graph it on the number line.

1 **Is 4 a solution of x + 11 = 13? Circle Yes or No.**

$4 + 11 = 15$ $x + 11 = 13$

Yes No

---

2 **Solve x + 1 = 13.**

$x + 1 = 13$ $x =$ ☐

---

3 **Solve 10x = 70.**

$10x = 70$ $x =$ ☐

Answer Key

1. No 2. 12 3. 7

Math Practice - Grade 6

M9 Equations and inequalities

M9 6.EE.B.5, 6.EE.B.6, 6.EE.B.7, 6.EE.B.8

Name: _____ Date: _____

Test whether the number is a solution. Solve the equation. Write the inequality the words describe and graph it on the number line.

1 **Is 4 a solution of x + 2 = 6? Circle Yes or No.**

$4 + 2 = 6$ $x + 2 = 6$

Yes No

---

2 **Solve x + 1 = 3.**

$x + 1 = 3$ $x =$ ☐

---

3 **Solve 8x = 64.**

$8x = 64$ $x =$ ☐

Answer Key

1. Yes 2. 2 3. 8

Math Practice - Grade 6

M10 Dependent and independent variables

M10 6.EE.C.9

Name: _____ Date: _____

Name the independent and the dependent quantity. Write the equation. Fill in the missing value in the table. Plot the values on the graph.

1 Each ticket costs 8. Which quantity is independent, and which is dependent?

Each ticket costs 8.

Independent:

Dependent:

---

2 Leo earns 15 every hour he works. Write the equation that links the two quantities.

Leo earns 15 every hour he works.

---

3 A train travels at a steady speed of 40 miles per hour. Fill in the missing value in the table.

time in hours	distance in miles
1	40
2	80
3	
4	160

Answer Key

1. Independent: number of tickets, Dependent: total cost

2. e = 15t

3. 120

Math Practice - Grade 6

M10 Dependent and independent variables

M10 6.EE.C.9

Name: _____ Date: _____

Name the independent and the dependent quantity. Write the equation. Fill in the missing value in the table. Plot the values on the graph.

1 Each box holds 12 pencils. Which quantity is independent, and which is dependent?

Each box holds 12 pencils.

Independent:

Dependent:

---

2 Each box holds 12 pencils. Write the equation that links the two quantities.

Each box holds 12 pencils.

---

3 Each bag holds 6 apples. Fill in the missing value in the table.

number of bags	total number of apples
1	6
2	12
3	
4	24

Answer Key

1. Independent: number of boxes, Dependent: total number of pencils

2. $p = 12b$

3. 18

Math Practice - Grade 6

M10 Dependent and independent variables

M10 6.EE.C.9

Name: _____ Date: _____

Name the independent and the dependent quantity. Write the equation. Fill in the missing value in the table. Plot the values on the graph.

1 Each ticket costs 8. Which quantity is independent, and which is dependent?

Each ticket costs 8.

Independent:

Dependent:

---

2 A train travels at a steady speed of 40 miles per hour. Write the equation that links the two quantities.

A train travels at a steady speed of 40 miles per hour.

---

3 Maya reads 3 pages every minute. Fill in the missing value in the table.

time in minutes	pages read
1	3
2	6
3	9
4	

Answer Key

1. Independent: number of tickets, Dependent: total cost

2. $d = 40t$

3. 12

Math Practice - Grade 6

M11 Area of triangles and polygons

M11 6.G.A.1

Name: _____ Date: _____

Find the area of the triangle, the parallelogram, and the trapezoid. Split the polygon into parts and add their areas.

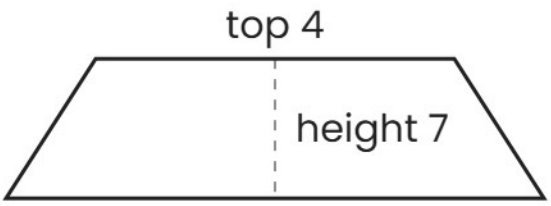
1 **Find the area of the triangle.**



2 **Find the area of the parallelogram.**



3 **Find the area of the trapezoid.**



Answer Key

1. 77 2. 90 3. 35

Math Practice - Grade 6

M11 Area of triangles and polygons

M11 6.G.A.1

Name: _____ Date: _____

Find the area of the triangle, the parallelogram, and the trapezoid. Split the polygon into parts and add their areas.

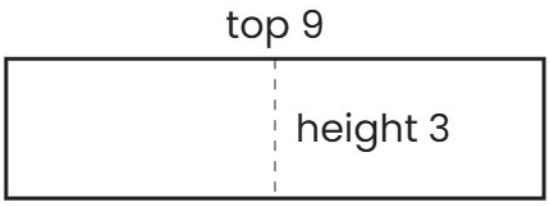
1 **Find the area of the triangle.**



2 **Find the area of the parallelogram.**



3 **Find the area of the trapezoid.**



Answer Key

1. 45 2. 195 3. 27

Math Practice - Grade 6

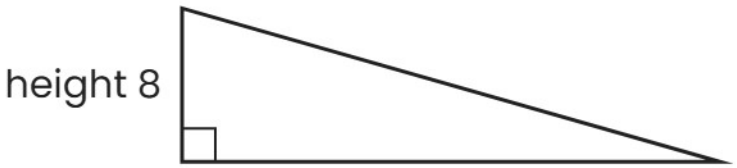
M11 Area of triangles and polygons

M11 6.G.A.1

Name: _____ Date: _____

Find the area of the triangle, the parallelogram, and the trapezoid. Split the polygon into parts and add their areas.

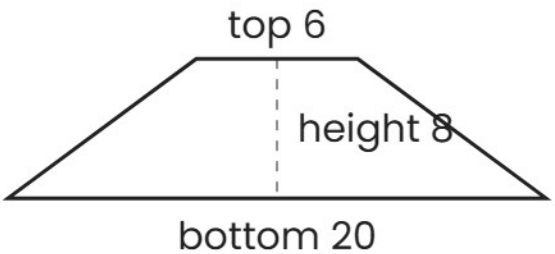
1 **Find the area of the triangle.**



2 **Find the area of the parallelogram.**



3 **Find the area of the trapezoid.**



Answer Key

1. 40 2. 68 3. 104

Math Practice - Grade 6

M12 Volume and surface area

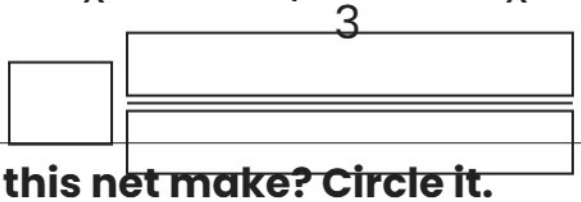
M12 6.G.A.2, 6.G.A.4

Name: _____ Date: _____

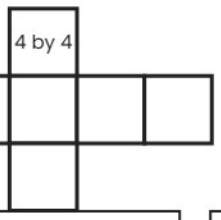
Multiply the edge lengths to find the volume. Name the solid from its net. Add the face areas to find the surface area.

1 Find the volume of the rectangular prism. The edges are 3 1/3, 7 2/3, and 3 1/2.

$3\frac{1}{3}$ x $7\frac{2}{3}$ x $3\frac{1}{2}$ =

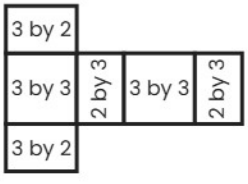


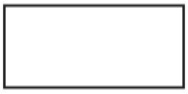
2 What solid does this net make? Circle it.



Cube | Rectangular prism | Triangular prism | Square pyramid

3 Find the surface area of the rectangular prism from its net. The edges are 3, 2, and 3.





Answer Key

1. 89 4/9 2. Cube 3. 42

Math Practice - Grade 6

M12 Volume and surface area

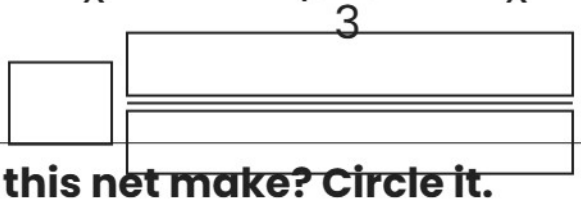
M12 6.G.A.2, 6.G.A.4

Name: _____ Date: _____

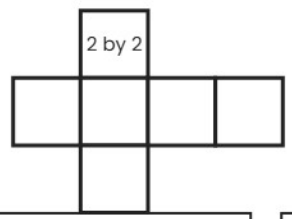
Multiply the edge lengths to find the volume. Name the solid from its net. Add the face areas to find the surface area.

1 Find the volume of the rectangular prism. The edges are 1, 1 1/3, and 7.

$$1 \quad x \quad 1\frac{1}{3} \quad x \quad 7 \quad =$$

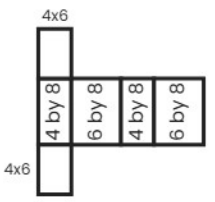


2 What solid does this net make? Circle it.



Cube | Rectangular prism | Triangular prism | Square pyramid

3 Find the surface area of the rectangular prism from its net. The edges are 4, 6, and 8.





Answer Key

1. 9 1/3 2. Cube 3. 208

Math Practice - Grade 6

M12 Volume and surface area

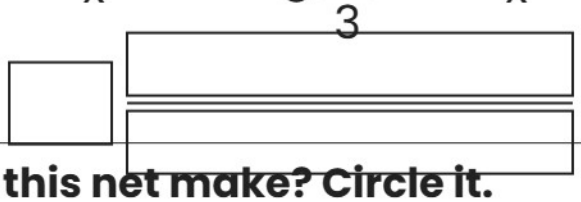
M12 6.G.A.2, 6.G.A.4

Name: _____ Date: _____

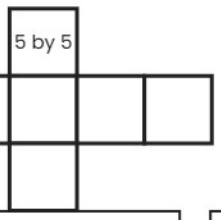
Multiply the edge lengths to find the volume. Name the solid from its net. Add the face areas to find the surface area.

1 **Find the volume of the rectangular prism. The edges are 3 1/3, 8 2/3, and 6 2/3.**

$3\frac{1}{3}$ x $8\frac{2}{3}$ x $6\frac{2}{3}$ =

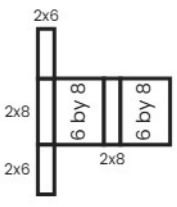


2 **What solid does this net make? Circle it.**



Cube | Rectangular prism | Triangular prism | Square pyramid

3 **Find the surface area of the rectangular prism from its net. The edges are 2, 6, and 8.**



Answer Key

1. 192 16/27 2. Cube 3. 152

Math Practice - Grade 6

M13 Statistics: questions, data, and displays

M13 6.SP.A.1, 6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5, 6.SP.B.5a, 6.SP.B.5b, 6.SP.B.5c, 6.SP.B.5d

Name: _____ Date: _____

Is the question statistical? Read the dot plot. Find the mean or the median. Find the range, the interquartile range, or the mean absolute deviation.

1 How tall are the students in your class? Is this a statistical question? Circle Statistical or Not statistical.

Statistical | Not statistical

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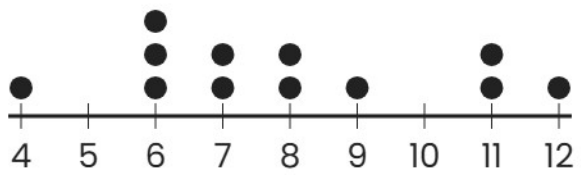
2 How many values are greater than 7?



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3 Find the mean of the data set.

36, 41, 11, 25, 35, 8, 11, 15, 16

Answer Key

1. Statistical 2. 6 3. 22

Math Practice - Grade 6

M13 Statistics: questions, data, and displays

M13 6.SP.A.1, 6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5, 6.SP.B.5a, 6.SP.B.5b, 6.SP.B.5c, 6.SP.B.5d

Name: _____ Date: _____

Is the question statistical? Read the dot plot. Find the mean or the median. Find the range, the interquartile range, or the mean absolute deviation.

1 What time does school start? Is this a statistical question? Circle Statistical or Not statistical.

Statistical | Not statistical

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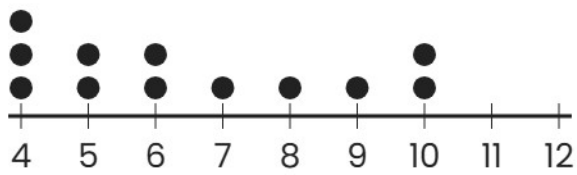
2 How many observations are in the dot plot?



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3 Find the median of the data set.

32, 41, 13, 38, 40, 36, 1, 31

Answer Key

1. Not statistical 2. 12 3. 34

Math Practice - Grade 6

M13 Statistics: questions, data, and displays

M13 6.SP.A.1, 6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5, 6.SP.B.5a, 6.SP.B.5b, 6.SP.B.5c, 6.SP.B.5d

Name: _____ Date: _____

Is the question statistical? Read the dot plot. Find the mean or the median. Find the range, the interquartile range, or the mean absolute deviation.

1 How much do the bags in the class weigh? Is this a statistical question? Circle Statistical or Not statistical.

Statistical | Not statistical

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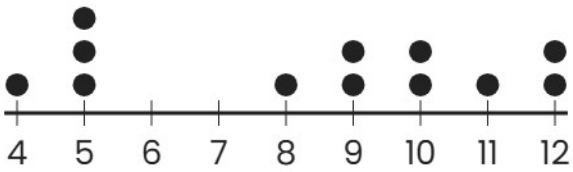
2 How many observations are in the dot plot?



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3 Find the mean of the data set.

3, 10, 23, 0, 36, 42

Answer Key

1. Statistical 2. 12 3. 19