

**Incoming
6th Grade
Summer Math Packet
Madina Academy**

Name:

Date:

Solve

1. $3 \times (4 + 1)$

2. $(4 - 1) \div 3$

3. $2 + 4 \div 4$

4. $(5 \times 2) \div 2$

5. $6 \div (6 - 4)$

6. $3 + 6 - 1$

7. $6 - 12 \div 6$

8. $(17 + 8) \div 5$

9. $6 \times (1 + 3)$

10. $5 + 5 - 4$

11. $(1 + 17) \div (6 + 4 - 4)$

12. $(6 + 2 + 6 \times 3) \times 2$

13. $2 + 6 \times 3 + 6 \times 4$

14. $4 + (1 + 6) \times 5 - 1$

15. $6 + 6 \times 3 - (5 - 5)$

16. $(2 + 1) \div 3 \times 3 \times 4$

17. $2 - 1 + 9 \div 3 - 2$

18. $(6 - 2) \times 9 \div (5 - 2)$

Name : _____

One-Step Equations: Integers

Add/Sub Level 1: S1

Solve each equation.

1) $x + 9 = 12$

2) $s - 1 = 10$

3) $3 = z - 11$

4) $5 + y = 7$

5) $8 = 2 + q$

6) $6 = n - 4$

7) $r - 2 = 5$

8) $6 = m + 6$

9) $p + 7 = 8$

10) $4 + a = 13$

Name : _____

Answer Key

One-Step Equations: Integers

Add/Sub Level 1: S1

Solve each equation.

1) $x + 9 = 12$

$x = 3$

2) $s - 1 = 10$

$s = 11$

3) $3 = z - 11$

$z = 14$

4) $5 + y = 7$

$y = 2$

5) $8 = 2 + q$

$q = 6$

6) $6 = n - 4$

$n = 10$

7) $r - 2 = 5$

$r = 7$

8) $6 = m + 6$

$m = 0$

9) $p + 7 = 8$

$p = 1$

10) $4 + a = 13$

$a = 9$

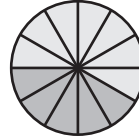
Name : _____

Fraction Manipulative

Sheet 1

Example:

$\frac{7}{12}$ and $\frac{5}{12}$ make a whole



1) $\frac{3}{8}$ and make a whole

2) $\frac{7}{15}$ and make a whole

3) and $\frac{4}{13}$ make a whole

4) $\frac{3}{6}$ and make a whole

5) and $\frac{8}{19}$ make a whole

6) and $\frac{10}{17}$ make a whole

7) $\frac{1}{4}$ and make a whole

8) $\frac{5}{9}$ and make a whole

9) $\frac{2}{12}$ and make a whole

10) and $\frac{6}{14}$ make a whole

Name: _____

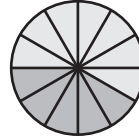
Answer Key

Fraction Manipulative

Sheet 1

Example:

$\frac{7}{12}$ and $\frac{5}{12}$ make a whole



1) $\frac{3}{8}$ and $\frac{5}{8}$ make a whole

2) $\frac{7}{15}$ and $\frac{8}{15}$ make a whole

3) $\frac{9}{13}$ and $\frac{4}{13}$ make a whole

4) $\frac{3}{6}$ and $\frac{3}{6}$ make a whole

5) $\frac{11}{19}$ and $\frac{8}{19}$ make a whole

6) $\frac{7}{17}$ and $\frac{10}{17}$ make a whole

7) $\frac{1}{4}$ and $\frac{3}{4}$ make a whole

8) $\frac{5}{9}$ and $\frac{4}{9}$ make a whole

9) $\frac{2}{12}$ and $\frac{10}{12}$ make a whole

10) $\frac{8}{14}$ and $\frac{6}{14}$ make a whole

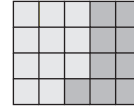
Name : _____

Fraction Manipulative

Sheet 1

Example:

$\frac{11}{20}$ and $\frac{9}{20}$ make a whole



1) $\frac{11}{14}$ and make a whole

2) and $\frac{4}{8}$ make a whole

3) and $\frac{1}{6}$ make a whole

4) $\frac{6}{17}$ and make a whole

5) $\frac{7}{13}$ and make a whole

6) and $\frac{8}{10}$ make a whole

7) and $\frac{5}{9}$ make a whole

8) $\frac{3}{4}$ and make a whole

9) $\frac{6}{16}$ and make a whole

10) $\frac{7}{19}$ and make a whole

Name : _____

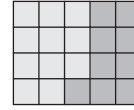
Answer Key

Fraction Manipulative

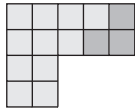
Sheet 1

Example:

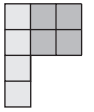
$\frac{11}{20}$ and $\frac{9}{20}$ make a whole



1) $\frac{11}{14}$ and $\frac{3}{14}$ make a whole



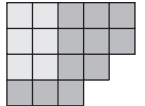
2) $\frac{4}{8}$ and $\frac{4}{8}$ make a whole



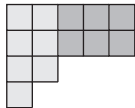
3) $\frac{5}{6}$ and $\frac{1}{6}$ make a whole



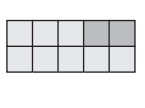
4) $\frac{6}{17}$ and $\frac{11}{17}$ make a whole



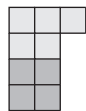
5) $\frac{7}{13}$ and $\frac{6}{13}$ make a whole



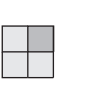
6) $\frac{2}{10}$ and $\frac{8}{10}$ make a whole



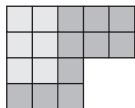
7) $\frac{4}{9}$ and $\frac{5}{9}$ make a whole



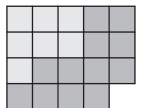
8) $\frac{3}{4}$ and $\frac{1}{4}$ make a whole



9) $\frac{6}{16}$ and $\frac{10}{16}$ make a whole



10) $\frac{7}{19}$ and $\frac{12}{19}$ make a whole



Name : _____

Subtracting Proper Fractions

Easy: S1

1) $\frac{10}{12} - \frac{3}{12} =$

2) $\frac{5}{7} - \frac{3}{7} =$

3) $\frac{2}{3} - \frac{1}{3} =$

4) $\frac{3}{4} - \frac{2}{4} =$

5) $\frac{4}{5} - \frac{2}{5} =$

6) $\frac{9}{10} - \frac{3}{10} =$

7) $\frac{7}{8} - \frac{4}{8} =$

8) $\frac{5}{6} - \frac{4}{6} =$

9) $\frac{8}{10} - \frac{1}{10} =$

10) $\frac{11}{12} - \frac{10}{12} =$

11) $\frac{6}{7} - \frac{2}{7} =$

12) $\frac{10}{11} - \frac{4}{11} =$

13) $\frac{7}{9} - \frac{4}{9} =$

14) $\frac{3}{5} - \frac{2}{5} =$

Name : _____

Answer Key

Subtracting Proper Fractions

Easy: S1

$$1) \quad \frac{10}{12} - \frac{3}{12} = \boxed{\frac{7}{12}}$$

$$2) \quad \frac{5}{7} - \frac{3}{7} = \boxed{\frac{2}{7}}$$

$$3) \quad \frac{2}{3} - \frac{1}{3} = \boxed{\frac{1}{3}}$$

$$4) \quad \frac{3}{4} - \frac{2}{4} = \boxed{\frac{1}{4}}$$

$$5) \quad \frac{4}{5} - \frac{2}{5} = \boxed{\frac{2}{5}}$$

$$6) \quad \frac{9}{10} - \frac{3}{10} = \boxed{\frac{6}{10} = \frac{3}{5}}$$

$$7) \quad \frac{7}{8} - \frac{4}{8} = \boxed{\frac{3}{8}}$$

$$8) \quad \frac{5}{6} - \frac{4}{6} = \boxed{\frac{1}{6}}$$

$$9) \quad \frac{8}{10} - \frac{1}{10} = \boxed{\frac{7}{10}}$$

$$10) \quad \frac{11}{12} - \frac{10}{12} = \boxed{\frac{1}{12}}$$

$$11) \quad \frac{6}{7} - \frac{2}{7} = \boxed{\frac{4}{7}}$$

$$12) \quad \frac{10}{11} - \frac{4}{11} = \boxed{\frac{6}{11}}$$

$$13) \quad \frac{7}{9} - \frac{4}{9} = \boxed{\frac{3}{9} = \frac{1}{3}}$$

$$14) \quad \frac{3}{5} - \frac{2}{5} = \boxed{\frac{1}{5}}$$

Name : _____

ES1

Greatest Common Factor

Find the greatest common factor for each pair of numbers.

1) 4, 8

Factors of 4 = _____

Factors of 8 = _____

GCF(4, 8) = _____

2) 12, 20

Factors of 12 = _____

Factors of 20 = _____

GCF(12, 20) = _____

3) 21, 3

Factors of 21 = _____

Factors of 3 = _____

GCF(21, 3) = _____

4) 24, 6

Factors of 24 = _____

Factors of 6 = _____

GCF(24, 6) = _____

5) 14, 16

Factors of 14 = _____

Factors of 16 = _____

GCF(14, 16) = _____

Name : _____

Answer key

ES1

Greatest Common Factor

Find the greatest common factor for each pair of numbers.

1) 4, 8

$$\text{Factors of 4} = \underline{1, 2, 4}$$

$$\text{Factors of 8} = \underline{1, 2, 4, 8}$$

$$\text{GCF}(4, 8) = \underline{4}$$

2) 12, 20

$$\text{Factors of 12} = \underline{1, 2, 3, 4, 6, 12}$$

$$\text{Factors of 20} = \underline{1, 2, 4, 5, 10, 20}$$

$$\text{GCF}(12, 20) = \underline{4}$$

3) 21, 3

$$\text{Factors of 21} = \underline{1, 3, 7, 21}$$

$$\text{Factors of 3} = \underline{1, 3}$$

$$\text{GCF}(21, 3) = \underline{3}$$

4) 24, 6

$$\text{Factors of 24} = \underline{1, 2, 3, 4, 6, 8, 12, 24}$$

$$\text{Factors of 6} = \underline{1, 2, 3, 6}$$

$$\text{GCF}(24, 6) = \underline{6}$$

5) 14, 16

$$\text{Factors of 14} = \underline{1, 2, 7, 14}$$

$$\text{Factors of 16} = \underline{1, 2, 4, 8, 16}$$

$$\text{GCF}(14, 16) = \underline{2}$$

Name: _____

Multiplying Two Fractions

Sheet 1

Find the product.

1) $\frac{9}{2} \times \frac{2}{3}$

2) $\frac{15}{7} \times \frac{6}{12}$

3) $\frac{8}{14} \times \frac{7}{6}$

4) $\frac{1}{5} \times \frac{19}{11}$

5) $\frac{5}{18} \times \frac{4}{9}$

6) $\frac{11}{6} \times \frac{7}{5}$

7) $\frac{6}{7} \times \frac{13}{7}$

8) $\frac{14}{15} \times \frac{3}{20}$

Multiplying Two Fractions

Find the product.

1) $\frac{9}{2} \times \frac{2}{3}$

3

2) $\frac{15}{7} \times \frac{6}{12}$

 $\frac{15}{14}$ or $1\frac{1}{14}$

3) $\frac{8}{14} \times \frac{7}{6}$

 $\frac{2}{3}$

4) $\frac{1}{5} \times \frac{19}{11}$

 $\frac{19}{55}$

5) $\frac{5}{18} \times \frac{4}{9}$

 $\frac{10}{81}$

6) $\frac{11}{6} \times \frac{7}{5}$

 $\frac{77}{30}$ or $2\frac{17}{30}$

7) $\frac{6}{7} \times \frac{13}{7}$

 $\frac{78}{49}$ or $1\frac{29}{49}$

8) $\frac{14}{15} \times \frac{3}{20}$

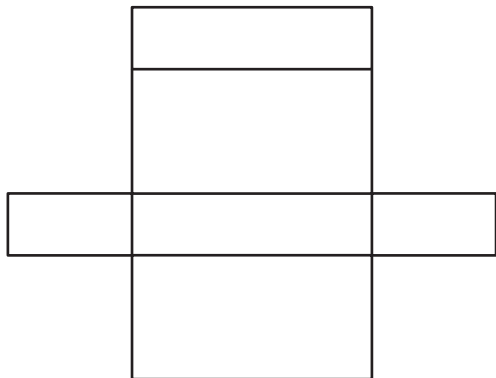
 $\frac{7}{50}$

Name : _____

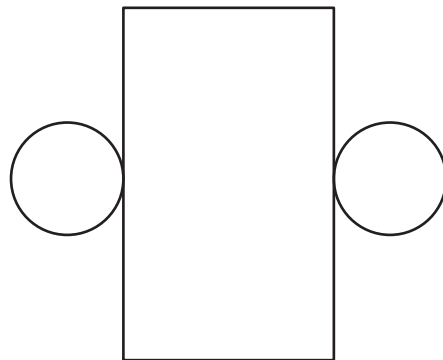
3D Shapes and Nets

Name the 3D shape formed by each net.

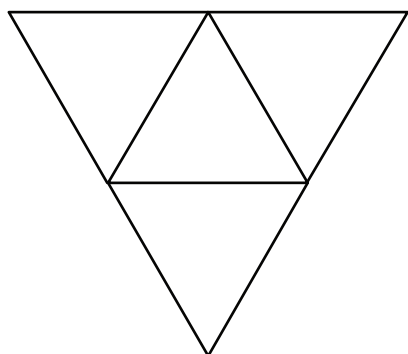
1)



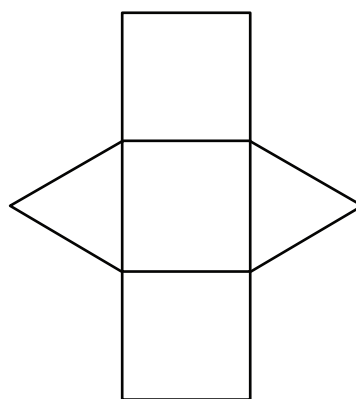
2)



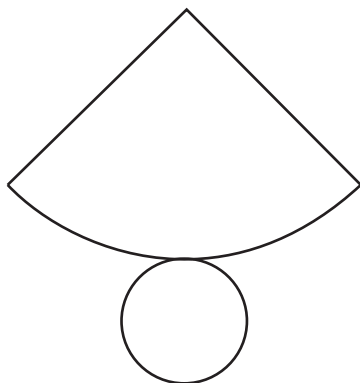
3)



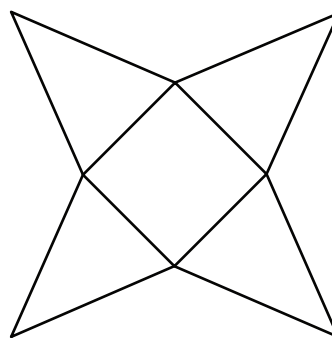
4)



5)



6)

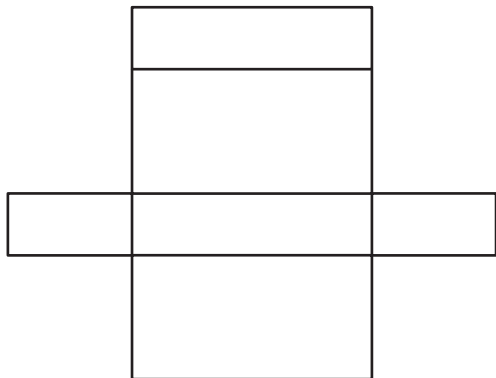


Name : _____

3D Shapes and Nets

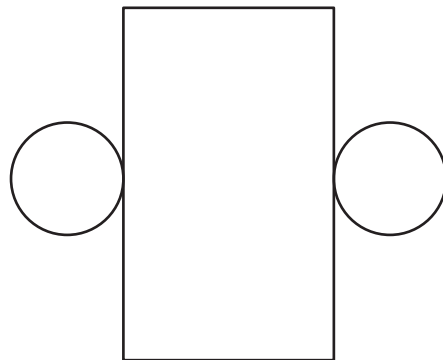
Name the 3D shape formed by each net.

1)



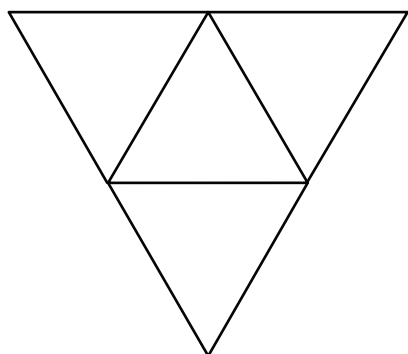
rectangular prism

2)



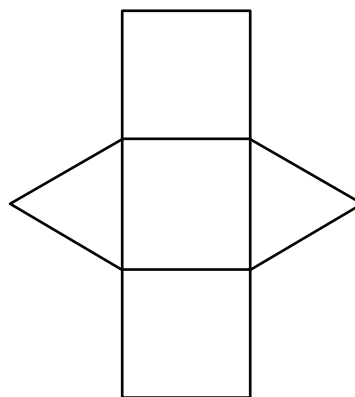
cylinder

3)



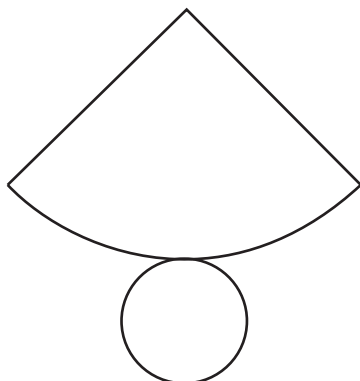
triangular pyramid

4)



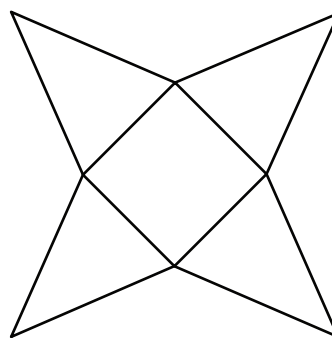
triangular prism

5)



cone

6)



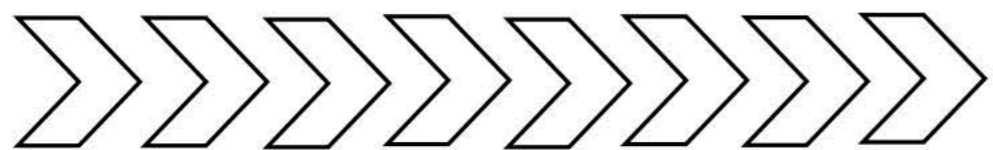
square pyramid



Week One

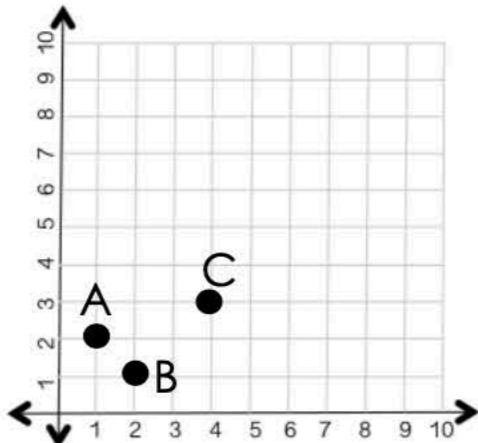


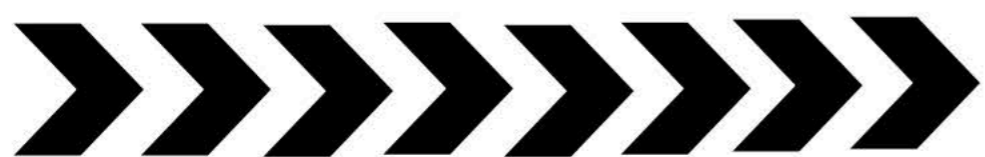
Problem	Work & Answer
List the factors of each number. a.) 24 b.) 64	
Fill in the missing number. a.) $0.24 - .128 = ?$ b.) $94.19 + 2.6 + \underline{?} = 161.29$	
Compare using $<$, $>$, or $=$ a.) $0.245 \bigcirc 0.0245$ b.) $24.500 \bigcirc 24.5$ c.) $20.405 \bigcirc 20.45$	
Write the following in expanded form: a.) 0.234 b.) 14.78	
Divide: a.) $2,936 \div 4$ b.) $14,783 \div 12$	



Week Two



Problem	Work & Answer
List the next four terms in the sequences with the given rule: a.) Start at 0, add three b.) Start at 0, add six c.) What is the relationship between the two sequences?	
Multiply: a.) 23.5×6 b.) 2.35×0.6 c.) 235.0×0.06	
Name each ordered pair. 	
Find each sum: a.) $\frac{1}{2} + \frac{1}{4}$ b.) $\frac{1}{4} + \frac{1}{3} + 3\frac{7}{12}$	
Round each number to the nearest tenth: a.) 985.76 b.) 43.52 c.) 0.859	



Week Three



Problem	Work & Answer
Use the order of operations to simplify each expression: a.) $(6 \times 3) + 72 \div 8 - 5 + 1$ b.) $3 \times \{[(65-49) + (42 \div 7)] \div 2\}$	
Order the following from least to greatest: 0.25, 2.205, 0.502, 0.225, 2.025	
Find the product of each of the following: a.) $2.85 \cdot 29$ b.) $\$1.55 \cdot 13$ c.) $1.2 \cdot 2.1$	
If you bought 3 CD's each costing \$12.99, and paid with a \$50 bill. What would your change be?	
Order the fractions from least to greatest $\frac{1}{2}, \frac{2}{3}, \frac{1}{4}, \frac{2}{5}$	