



Dear Soon-To-Be 8th Graders,

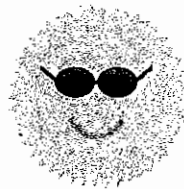
Summer is a time for lots of fun in the sun, but keeping your math skills sharp is also important! Your summer math assignment is to complete the skills review packet. This will be collected when you return to ABVM for the 2021-2022 school year. This assignment is worth 20 points.

When you complete the packet please show all your work on loose leaf when needed. The loose leaf must have the proper Assumption heading and all work must be written neatly and in pencil. Please staple the entire completed packet together for submission in September. If you need help with certain problems you may use old notebooks and online math resources such as Khan Academy.

I hope you have a fun and safe summer vacation!

God Bless,

Mrs. Neuser



Math Nums Ops Algebra and Geometry 7\_1

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Each day that it is watered, a plant grows 1 inch. Which shows this?

- A. A
- B. B
- C. C

3.

12 inches = 1 foot  
 Kate is 6 feet tall.  
 How many inches is this?

- A. 60
- B. 18
- C. 72

2.

Truck Facts

Truck	Cost in \$	Tons it can tow
1	20,000	8
2	22,000	12
3	40,000	28
4	35,000	24

Which costs 2 times as much as Truck 1?

- A. Truck 3
- B. Truck 2
- C. Truck 4

4.

Triangle ABC is congruent to Triangle DBC

BD = \_\_\_\_

- A.  $\frac{4}{5}$  in.
- B. 4 in.
- C. 5 in.

Math Nums Ops Algebra and Geometry 7\_2

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Miles Driven


Hours	Miles
1	30
2	60
3	90
4	120
5	150


The car will drive \_\_\_ miles  
in 6 hours.


- A. 170
- B. 180
- C. 190

2.

Square A      Square B      Square C

  
5 inches

  
20 inches

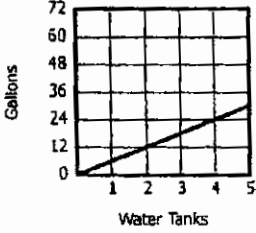
  
20 inches

Which squares are congruent?

- A. B and C
- B. A and B
- C. A and C

3.

How Much Water Tanks Hold



6 water tanks hold \_\_\_ gallons.

- A. 36
- B. 24
- C. 30

4.

4 in 6 houses have a dog.  
There are 12 houses.  
How many have a dog?

- A. 4
- B. 8
- C. 6

Math Nums Ops Algebra and Geometry 7\_4

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Which triangles are congruent?

- A. A and B
- B. B and C
- C. A and C

2.

A house is 30 ft. tall.  
 A school is 3 times as tall.  
 How tall is the school?

- A. 90 ft.
- B. 33 ft.
- C. 60 ft.

3.

Price of Different Pie Slices

Pie	Slices	Price
Pecan	1	\$2.50
	2	\$5.00
Cherry	1	\$2.00
	2	\$4.00
Apple	1	\$1.50
	2	\$3.00

Jane buys 4 slices of a pie for \$6.00.  
 What kind of pie did she buy?

- A. Apple
- B. Cherry
- C. Pecan

4.

Radio Type	Radio Cost
Radio A	\$150.00
Radio B	\$175.00
Radio C	\$75.00
Radio D	\$100.00

Which costs 2 times as much as Radio C?

- A. Radio D
- B. Radio B
- C. Radio A

Math Nums Ops Algebra and Geometry 7\_5

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Which 2 triangles form the rectangle?

- A. A
- B. B
- C. C

3.

A cube has 2 black sides, 2 white sides, 1 yellow side, and 1 green side.

What is the chance it will land with the yellow side up?

- A.  $\frac{1}{6}$
- B.  $\frac{1}{3}$
- C.  $\frac{1}{2}$

2.

It costs \$3.00 to get into the fair.

Each ride costs \$0.50.

How much does it cost to get into the fair and go on 2 rides?

- A. \$1.00
- B. \$5.00
- C. \$4.00

4.

Triangle ACD is congruent to Triangle ABD

$AB + BD = \underline{\quad}$  in.

- A. 100
- B. 125
- C. 150

Math Nums Ops Algebra and Geometry 7\_7

Student Name: \_\_\_\_\_


Date: \_\_\_\_\_

1.

$\frac{1}{4}$  of Jim's gumballs are red.  
What % are red?

- A. 50%
- B. 20%
- C. 25%

2.

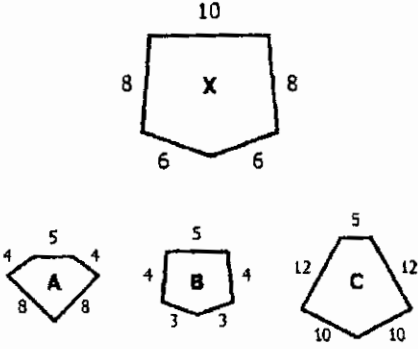
 = 1 cm  
1 cm = 4 ft

	counter	
sink		table

How long is the counter?

- A. 8 feet
- B. 5 feet
- C. 6 feet

3.



Which is similar to X?

- A. A
- B. B
- C. C

4.

Carlos makes 2 pizzas in 1 hour.  
How many hours to make 10 pizzas?

- A. 10
- B. 20
- C. 5

Math Nums Ops Algebra and Geometry 7\_8

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

1 cm = 5 feet

How wide is the doghouse?

- A. 1 foot
- B. 5 feet
- C. 3 feet

2.

Flower Growth

Which is taller: a sunflower or a daisy?

- A. daisy
- B. sunflower
- C. both are the same

3.

□ = 1 cm  
1 cm = 4 ft

How long is the sink?

- A. 8 feet
- B. 4 feet
- C. 6 feet

4.

A and B are similar.

? = \_\_\_

- A. 5
- B. 15
- C. 9

Math Nums Ops Algebra and Geometry 7\_9

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

A coin has a heads side and a tails side.  
Chuck flips the coin 80 times.  
About how many times will it land heads up?

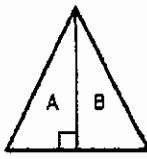
- A. 25
- B. 40
- C. 50

3.

Joe gets 90% right on a quiz with 20 questions.  
How many questions does he get right?

- A. 18
- B. 9
- C. 20

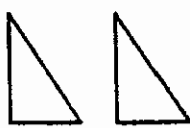
2.



Triangles A and B are congruent.  
Area of A = 90 units<sup>2</sup>  
Area of B = \_\_\_ units<sup>2</sup>

- A. 90
- B. 30
- C. 45

4.



These triangles are congruent.  
The side lengths are \_\_\_.

- A. equal
- B. not equal
- C. perpendicular



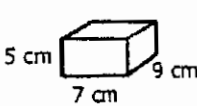
Math Measurement Geometry and Algebra 7\_1

Student Name: \_\_\_\_\_

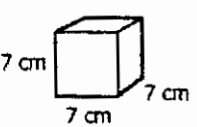
Date: \_\_\_\_\_

1.

Volume =  $L \times W \times H$



A






B

Volume of A \_\_\_ Volume of B

- A. >
- B. =
- C. <

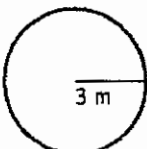
2.

3 cylinders have equal height.  
Which has the greatest surface area?

- A.  area of base =  $1\pi \text{ in.}^2$
- B.  area of base =  $6\pi \text{ in.}^2$
- C.  area of base =  $4\pi \text{ in.}^2$

3.

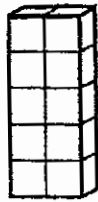
Circumference =  $2\pi r$



C = \_\_\_ m

- A. 23
- B.  $6\pi$
- C.  $\pi$

4.



Volume =  $10 \text{ in.}^3$

How many  $1 \text{ in.}^3$  blocks fit inside this shape?

- A. 11
- B. 10
- C. 100

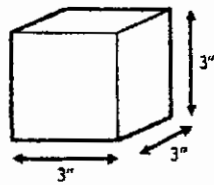
Math Measurement Geometry and Algebra 7\_2

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Volume =  $L \times W \times H$






$V = \underline{\quad} \text{ in.}^3$

- A. 36
- B. 27
- C. 40

2.

Circumference =  $2\pi r$

Which circumference is greatest?

- A.   $r = 4 \text{ in.}$
- B.   $r = 40 \text{ in.}$
- C.   $r = 10 \text{ in.}$

3.

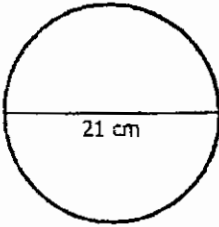
Circumference =  $2\pi r$

A circle has  $r = 8 \text{ in.}$

$C = \underline{\quad} \text{ in.}$

- A.  $16\pi$
- B.  $12\pi$
- C.  $8\pi$

4.



Circumference =

- A.  $21 \times \pi$
- B.  $(21 \times 21) \times \pi$
- C.  $7 \times \pi$




Math Measurement Geometry and Algebra 7\_4

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Circumference =  $2\pi r$   
Which circumference is greatest?

- A.   $r = 8$  in.
- B.   $r = 4$  in.
- C.   $r = 7$  in.

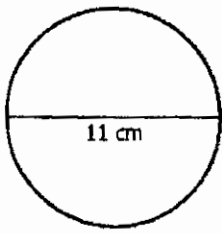
2.

76 in. is about the circumference  
of a \_\_\_\_.

- A. scoop of ice cream
- B. frisbee
- C. hula hoop

3.

Circumference =  $\pi \times$  diameter



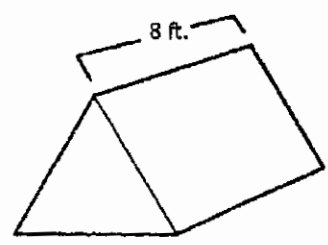
11 cm

C = \_\_\_\_ cm

- A. 54.34
- B. 45.43
- C. 34.54

4.

Volume = base area  $\times$  length



8 ft.

$V = 48 \text{ ft.}^3$

base area = \_\_\_\_  $\text{ft.}^2$

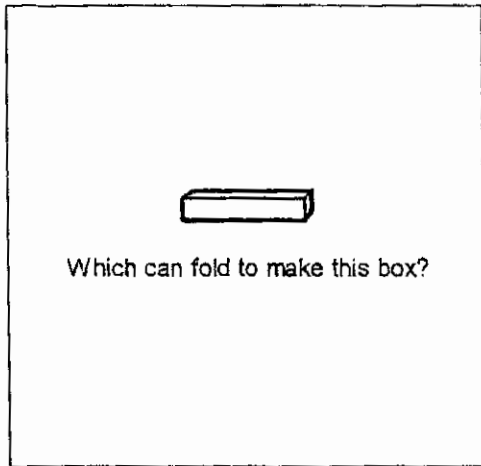
- A. 18
- B. 6
- C. 9

Math Measurement Geometry and Algebra 7\_5

Student Name: \_\_\_\_\_

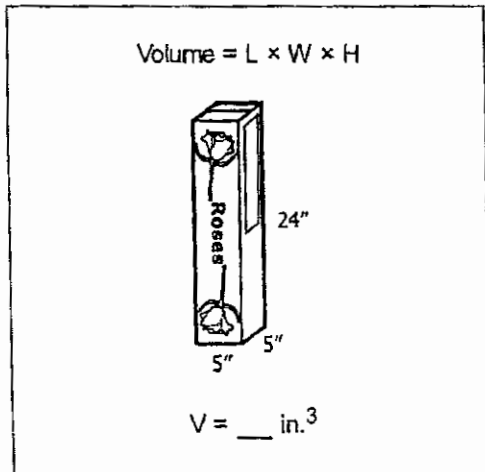
Date: \_\_\_\_\_

1.



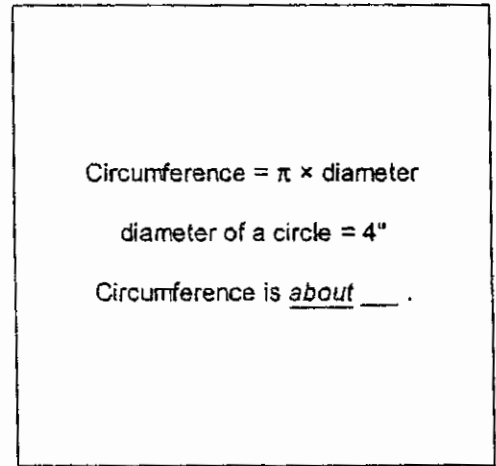
- A.
- B.
- C.

3.



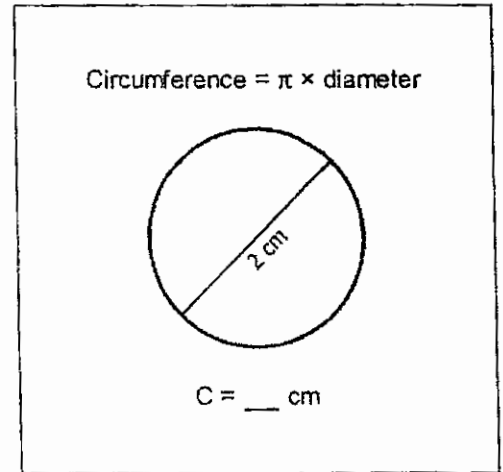
- A. 240
- B. 524
- C. 600

2.



- A. 3"
- B. 24"
- C. 12"

4.



- A. 16.24
- B. 6.28
- C. 12.18

Math Numbers Operations and Algebra 7\_1

Student Name: \_\_\_\_\_

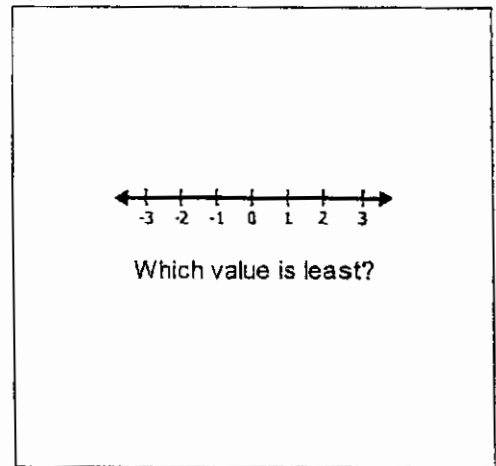
Date: \_\_\_\_\_

1.

Which value is least?

- A. -5
- B. 10
- C. 0

2.



- A. -3
- B. 2
- C. -1

3.

$15 \div 3 + 7 = \underline{\quad}$

- A. 11
- B. 12
- C. 52

4.

Estimate:  
 $230.7 - 110.9$

- A. 109
- B. 120
- C. 130

Math Numbers Operations and Algebra 7\_2

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

$$12 - 13 = \underline{\quad}$$

- A. -1
- B. 0
- C. -25

2.

$$(3 + 6) - (6 - 3) = \underline{\quad}$$

- A. 3
- B. 18
- C. 6

3.

Jane has 4.8 pints of juice.  
Tim has 7.4 pints of juice.  
About how many pints of juice do they have in all?

- A. 12
- B. 10
- C. 15

4.

Estimate:  
 $6.72 + 8$

- A. 1
- B. 15
- C. 13

Math Numbers Operations and Algebra 7\_3

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Which value is negative?

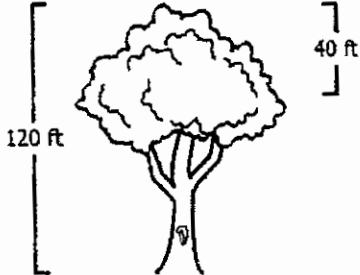
- A.  $\frac{1}{5}$
- B. 0.05
- C. -5

2.

shirt = \$14.99  
pants = \$27.00  
sweater = \$36.99  
About how much \$ in all?

- A. \$100.00
- B. \$80.00
- C. \$50.00

3.



A tree is 120 feet tall. Abe cuts 40 feet off the top.

How tall is the tree now?

- A. 100 ft.
- B. 80 ft.
- C. 160 ft.

4.

$-4 + 14 + 7 = \underline{\quad}$

- A. 17
- B. 25
- C. 3

# Math Numbers Operations and Algebra 7\_4

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

$$6 + -2 = \underline{\quad}$$

- A. 4
- B. 0
- C. 3

2.

Estimate:  
 $7.82 + 0$

- A. 10
- B. 9
- C. 8

3.

Jane has 5.8 pints of juice.  
Tim has 8.4 pints of juice.  
About how many pints do they have in all?

- A. 17
- B. 14
- C. 12

4.

$$4 \times -3 = \underline{\quad}$$

- A. 12
- B. 1
- C. -12

AS

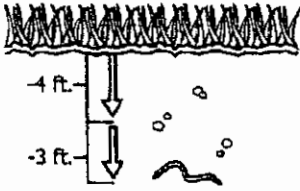


Math Numbers Operations and Algebra 7\_5

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.



A worm digs -4 ft. in the ground.  
Then he goes -3 ft. deeper.  
How far down is he now?

- A. -1 ft.
- B. -7 ft.
- C. -3 ft.

3.

$18 - (3 \times 2) = \underline{\quad}$

- A. 24
- B. 6
- C. 12

2.

A diver is at 100 feet below sea level.  
She dives 50 feet deeper.  
Where is she now?

- A. -150 ft.
- B. -50 ft.
- C. -75 ft.

4.

Estimate:  
 $7.82 + 6.84$

- A. 13
- B. 42
- C. 15

Math Numbers Operations and Algebra 7\_6

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

Bill owes \$20.00.  
He gets \$25.00.  
How much \$ can he keep?

- A. \$20.00
- B. \$15.00
- C. \$5.00

2.

shirt = \$14.99  
pants = \$27.00  
sweater = \$36.99  
About how much \$ in all?

- A. \$100.00
- B. \$80.00
- C. \$50.00

3.

Estimate:  
 $3.44 + 2.27$

- A. 7
- B. 6
- C. 4

4.

Estimate:  
 $7.4 \times 5.7$

- A. 48
- B. 42
- C. 30

Math Numbers Operations and Algebra 7\_7

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

$$7 \times -5 = \underline{\quad}$$

- A. -35
- B. 12
- C. 2

2.

Estimate:  
 $16.92 + 7.89$

- A. 25
- B. 22
- C. 21

3.

$7.3 + 3.1$  is about  $\underline{\quad}$ .

- A. 10
- B. 12
- C. 8

4.

Estimate:  
 $84.2 + 15.9$

- A. 90
- B. 80
- C. 100

# Math Numbers Operations and Algebra 7\_8

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.

$-5 \times 3 = \underline{\quad}$

- A. -3
- B. 15
- C. -15

2.

Ann has 14 pens.  
She gives  $\frac{1}{2}$  of her pens to Tom.  
How many pens does Ann have left?

- A. 7
- B. 28
- C. 8

3.

A flower is 5.5 inches high. A rabbit eats some of the flower. Now the flower is 1 inch high.  
Which shows how many inches the rabbit ate?

- A.  $5.5 - 1$
- B.  $1 + 1$
- C.  $5.5 + 1$

4.

John has 3 times as many tomatoes as Ming.  
John has 24 tomatoes.  
How many tomatoes does Ming have?

- A. 21
- B. 27
- C. 8

Math Numbers Operations and Algebra 7\_9

Student Name: \_\_\_\_\_

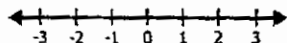
Date: \_\_\_\_\_

1.

Which is a negative number?

- A. 4
- B. 0.04
- C. -4

2.

  
Which is NOT negative and NOT positive?

- A. -2
- B. 1
- C. 0

3.

Which has the least value?

- A. -6
- B. -5
- C. -4

4.

Estimate:  
 $14.22 \times 12.34$

- A. 170
- B. 112
- C. 100

