\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

**YOU MAY USE A CALCULATOR!**

You have a **maximum of 90 minutes** to complete this assessment. You may write on the document.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. (7.NS.3)

Simplify .

 A. 1.5

 B. .15

 C. .0015

 D. .015

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. (7.NS.1)

 A 12-story building has a glass-enclosed elevator that goes up and

down the outer wall of the building. From 1 floor below the

topmost floor, you take the elevator and go down 3 floors. How

many floors are you above the bottom floor?

 A. 12 floors

 B. 10 floors

 C. 8 floors

 D. 6 floors

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. (7.SP.6)

 Michael has a bus rental agency. He has 18 buses available for rent.

 14 of the buses have air conditioning. What is the probability that a

 randomly chosen bus will **not** have air conditioning?

 A. 

 B. 

 C. 

 D. 

4. (7.SP.5)

 Tina rides the bus to school, Theo bikes to school, and Tony

walks to school. Their probabilities of being the first one to

school are as follows:

Probability of the event that Tina is first = .05

Probability of the event that Theo is first = 85%

Probability of the event that Tony is first = 

Put these events in order from least likely to most likely.

 A. Tony, Tina, Theo

 B. Tina, Tony, Theo

 C. Theo, Tony, Tina

 D. Theo, Tina, Tony

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. (7.NS.2)

What percent of 317 is 84? Round to the nearest tenth of a percent.

 A. 2.65%

 B. 0.265%

 C. 0.3%

 D. 26.5%

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. (7.RP.2)

 An art store sells fabric. The relationship between the area and the

cost of the fabric is shown in the following graph.



Which of the following statements are true? (There may be more than one correct answer.)

I. 5 square meters of fabric will cost $30

II. (3, 18) shows that the cost is $3 for 18 square meters of fabric

III. (2, 12) indicates that 2 square meters of fabric will cost $12

 A. statement I, only

 B. statements I and II

 C. statements II and III

 D. statements I and III

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. (7.EE.1)

Which expression was simplified to create ?

 A. $-4x+6x-24$

 B. $4x+3\left(2x-8\right)$

 C. $4x+3(2x+8)$

 D. 2(5x+12)

8. (7.EE.2)

 Your boss has decided to give you a 5% raise. Which equation best represents this situation?

 A. New Pay = Old Pay + 0ld Pay(.05)

 B. New Pay = Old Pay(.05)

 C. New Pay = Old Pay + .05

 D. New Pay = Old Pay(.95)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. (7.G.3)

 A plane is cutting each of the eight three-dimensional objects.

Which of these will produce a rectangular cross section?



 A. 2, 3

B. 2, 3, 8

C. 2, 3, 7, 8

D. all of the objects

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. (7.G.5)

 What are the measures of angle *a* and angle *b* found in Figure 2?



 A. The measure of angle *a* = 59$°$; the measure of angle *b* = 149 $°$.

B. The measure of angle *a* =149 $°$; the measure of angle *b* = 59$°$.

C. The measure of angle *a* = 90$°$; the measure of angle *b* =180$°$.

D. The measure of angle *a* = 31$°$; the measure of angle *b* =90$°$.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. (7.G.6)

 A **cube** has a surface area of 96 meters squared. What is the volume

 of the cube?

 A. 64 meters cubed

 B. 64 meters squared

 C. 16 meters cubed

 D. 16 meters squared

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. (7.EE.4b)

The solution to an inequality has been graphed in the figure below.



 Which inequality has been graphed?

 A. 

 B. 

 C. 

 D. 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. (7.NS.2)

What is in decimal form?

 A. 

 B. 

 C. 0.54

 D. 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. (7.G.4)

 Find the area *A* of figure. Give an exact answer.

 A.  square units

 B.  square units

 C.  square units

 D.  square units

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. (7.G.4)

 Find the perimeter *P* of the figure. Give an exact answer.



 A.  units

 B.  square units

 C.  units

 D.  square units