Date

April 20th



## **Practice by Objective**

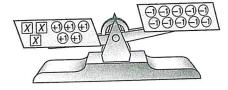
PA. A. 4. 2 and 4.3

What is the solution for the inequality shown below?

$$-15 < a + 15$$

- **A** a > -30
- **B** a < -30
- **C** a < 30
- $\mathbf{D} a < 0$

The scale below models an inequality. The farther down the scale is, the greater the value. What is the solution to the inequality?



- **C** x > -5
- **D** x < -5

2 Which numberline represents the solution to the inequality below?

$$5 - 3x \ge 17$$

- \_5\_4\_3\_2\_1 0 1 2 3 4 5
- \_5\_4\_3\_2\_1 0 1 2 3 4 5

Which inequality could be used to represent the situation "4 less than three times a number h is greater than 45"?

**A** 
$$3 - 4 \ge 45$$

- **B** 4h 3 < 45
- **C** 3h 4 > 45
- **D** 45 4 < 3h

Name ·

Date



## Practice by Objective

PA. A. 4-2 and 4.3

What is the solution for the inequality shown below?

$$-15 < a + 15$$

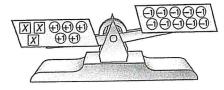
$$\begin{array}{c|cccc} (A) & a > -30 & -|5 \le a + |5| \\ B & a < -30 & -|5| \\ \hline C & a < 30 & -|5| \end{array}$$

Which numberline represents the solution to the inequality below?

$$5 - 3x \ge 17$$

$$\frac{5-3\times 217}{-3\times 212}$$

write what you see The scale below models an inequality. The farther down the scale is, the greater the value. What is the solution to the inequality?



$$Ax > -\frac{5}{3} \quad 3x + 5 > -10$$

$$\mathbf{B} \ x < -\frac{5}{3} \qquad 3 \times > -16$$

$$\mathbb{C}x > -5 \qquad \frac{3x}{3} \qquad \frac{1}{3}$$

Which inequality could be used to represent the situation "4 less than three times a number h is greater than 45"?

**A** 
$$3 - 4 ≥ 45$$

**B** 
$$4h - 3 < 45$$

$$\bigcirc 3h - 4 > 45$$

$$D 45 - 4 < 3h$$



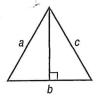
## **Practice by Objective**

8.3.2

PA. GM 10 1 and 102

For which triangle is the relationship  $a^2 + b^2 = c^2$  true?

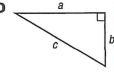
A





B





One leg of a right triangle measures 9 cm and its hypotenuse measures 12 cm. What is the length of the other leg?

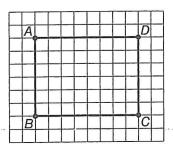
A 1.7 centimeters

**B** 7.9 centimeters

**C** 9.1 centimeters

**D** 11.6 centimeters

What is the length of segment  $\overline{BD}$  in the diagram?



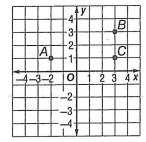
A 6 units

B 8 units

C 10 units

D 12 units

How much shorter is the direct path from A to B than the path that goes from A to C to B?



**A** 1.6 units

**B** 2.9 units

**C** 4.4 units

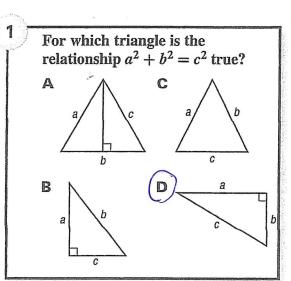
D 5.4 units



Practice by Objective legs

8.3.2

PA. GM loland 102



One leg of a right triangle measures 9 cm and its hypotenuse measures 12 cm. What is the length of the other leg?

92+62=122 A 1.7 centimeters

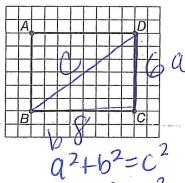
How much shorter is the direct path from  $\overline{A}$  to  $\overline{B}$  than the path

that goes from A to C to B?

B 7.9 centimeters -C 9.1 centimeters

D 11.6 centimeters

What is the length of segment  $\overline{BD}$  in the diagram?



**A** 6 units  $6^{2}+8^{2}=6^{2}$  **B** 8 units  $36+64=6^{2}$  **C** 10 units 100=6

© 10 units D 12 units

2500 = C = 10

A)1.6 units B 2.9 units

**C** 4.4 units

D 5.4 units

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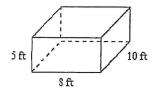
AtoCtoB = 5+2= AtOB - 5,385

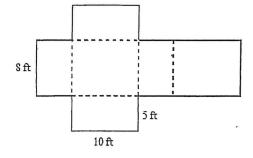
# April 22hd

NAME\_\_\_\_\_

#### OAS PA.GM.2.1 and 2.2

Use the net to find the surface area of the rectangular prism.





- A. 400 ft<sup>2</sup>
- B. 170 ft<sup>2</sup>
- C. 85 ft<sup>2</sup>
- D. 340 ft<sup>2</sup>
- 2

find the surface area of the cube.

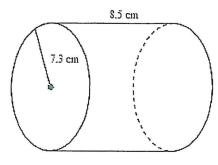


- (A.) 384 m<sup>2</sup>
- B. 512 m<sup>2</sup>
- C. 192 m<sup>2</sup>
- D. 256 m<sup>2</sup>

*		

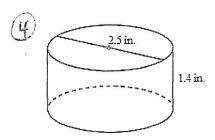
3

What is the surface area of the cylinder? Use 3.14 for  $\pi$  and round the answer to the nearest square centimeter.



(not drawn to scale)

- A. 724 cm<sup>2</sup>
- B. 1,422 cm<sup>2</sup>
- C. 362 cm<sup>2</sup>
- D. 229 cm<sup>2</sup>



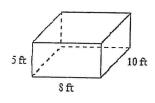
- A. 43 in<sup>2</sup>
- B. 13 in<sup>2</sup>
- C. 21 in<sup>2</sup>
- D. 10 in<sup>2</sup>

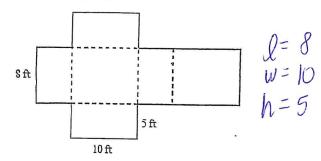
Surface Area istal in like Calculate units, like Calculate units, like



NAME\_KGY OAS PA.GM.2.1 and 2.2

Use the net to find the surface area of the rectangular prism.





- A. 400 ft<sup>2</sup>
- B. 170 ft<sup>2</sup>
- C. 85 ft<sup>2</sup>
- (D.) 340 ft<sup>2</sup>

SA of rectangular = 2lw+2lh+2wh prism = 2(8.10)+2(8.5)+2(10.5)

2

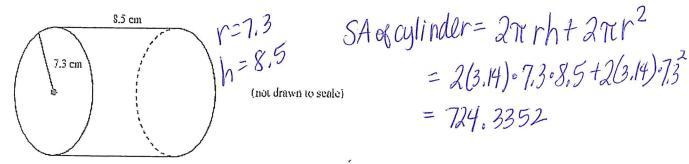
find the surface area of the cube.

5A = 2lw + 2lh + 2wh= 2(8.8) + 2(8.8) + 2(8.8)

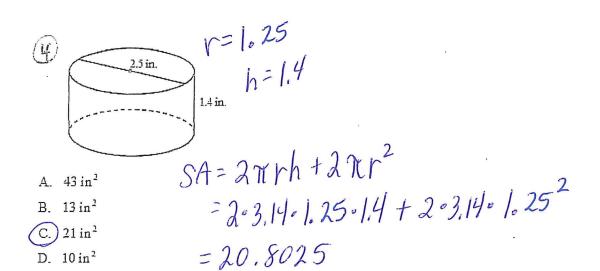
- (A.) 384 m<sup>2</sup>
- B. 512 m<sup>2</sup>
- C. 192 m<sup>2</sup>
- D. 256 m<sup>2</sup>

(3)

What is the surface area of the cylinder? Use 3.14 for  $\pi$  and round the answer to the nearest square centimeter.



- (A.) 724 cm<sup>2</sup>
  - B. 1,422 cm<sup>2</sup>
- C. 362 cm<sup>2</sup>
- D. 229 cm<sup>2</sup>



			*

April 22nd



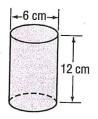


# **Practice by Objective**

8.4.1

PA.GM. 201 and 202

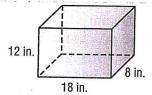
Sean is making a kaleidoscope from the tube shown.



How much contact paper would he need to cover the top, the bottom and the side of the tube?

- A  $216\pi$  sq cm
- **B**  $90\pi$  sq cm
- $C 54\pi$  sq cm
- $\int_{-72\pi}^{\infty}$  sq cm

The figure below shows a rectangular prism. What is the surface area of the prism?



- **A** 750 sq in.
- **B** 825 sq in.
- **C** 912 sq in.
- **D** 1020 sq in.

= 907

April 22nd

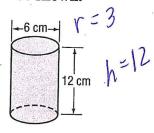
# **Practice by Objective**

PA, GM, 2. 1 and 2.2

SA= 27rh + 27r2

= 217.3.12+277.32

Sean is making a kaleidoscope from the tube shown.



How much contact paper would he need to cover the top, the bottom and the side of the tube?

 $\mathbf{A}$  216 $\pi$  sq cm

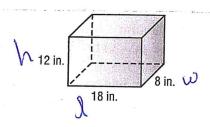
(B) 90 $\pi$  sq cm

 $\mathbf{C}$  -54 $\pi$  sq cm

 $\mathbf{D} - 72\pi \text{ sq cm}$ 

indicates answer reaving answer in terms of r.

The figure below shows a rectangular prism. What is the surface area of the prism?



**A** 750 sq in.

**B** 825 sq in.

**©**)912 sq in.

**D** 1020 sq in.

April 23d

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OAS	PA	GM			and	7		

A rectangular prism has dimensions of 8 m, 10 m, and 12 m. What is the volume of the prism?

- A. 308 m<sup>3</sup>
- B. 960 m<sup>3</sup>
- C. 970 m<sup>3</sup>
- D. 120 m<sup>3</sup>

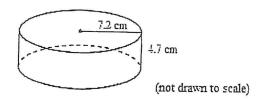
A cube measures 19 feet along each edge. What is the volume of the cube?

- A. 6,859 ft<sup>3</sup>
- B. 6,959 ft<sup>3</sup>
- C. 1,083 ft<sup>3</sup>
- D. 57 ft<sup>3</sup>

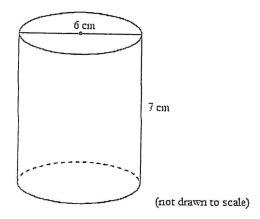
(3) A rectangular prism has a base area of 171 square feet. The height of the prism is 8 feet. What is the volume of the prism?

- A. 29,305 ft<sup>3</sup>
- B. 1,368 ft<sup>3</sup>
- C. 1,378 ft<sup>3</sup>
- D. 179 ft<sup>3</sup>

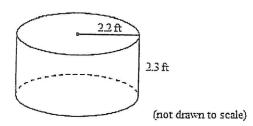
What is the volume of the cylinder? Use 3.14 for  $\pi$ .



- A. 162.78 cm<sup>2</sup>
- B. 499.41 cm<sup>3</sup>
- C. 782.26 cm<sup>3</sup>
- D. 765.05 cm<sup>3</sup>
- 6 What is the volume of the cylinder? Use 3.14 for  $\pi$ .



- A. 65.94 cm<sup>3</sup>
- B.  $197.82 \text{ cm}^3$
- C. 28.26 cm<sup>3</sup>
- D. 461.58 cm<sup>3</sup>
- (6) What is the volume of the cylinder? Use 3.14 for  $\pi$ .



- A. 36.54 ft<sup>3</sup>
- B. 34.95 ft<sup>3</sup>
- C. 69.91 ft<sup>3</sup>
- D. 15.89 ft<sup>3</sup>

Volume is in like calculated units is cubed units is

April 23rd

- A rectangular prism has dimensions of 8 m, 10 m, and 12 m. What is the volume of the prism?
- A. 308 m<sup>3</sup>
- 960 m³
- C. 970 m<sup>3</sup>
- D. 120 m<sup>3</sup>

Vot rectargular = l.w.h prism = 8:10:12

= 960

- A cube measures 19 feet along each edge. What is the volume of the cube?
- A) 6,859 ft<sup>3</sup>
- B. 6,959 ft<sup>3</sup>

V= liwih

C. 1.083 ft<sup>3</sup>

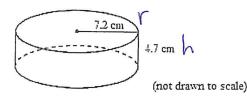
= 19.19.19

D. 57 ft<sup>3</sup>

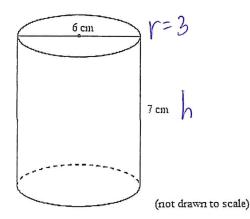
= 6859

- (3) A rectangular prism has a base area of 171 square feet. The height of the prism is 8 feet. What is the volume of the prism?
- A. 29,305 ft<sup>3</sup>
- B.) 1,368 ft<sup>3</sup>
- C. 1,378 ft<sup>3</sup>
- D. 179 ft<sup>3</sup>
- V= B.h
  - = 171.8
  - = 1368

- What is the volume of the cylinder? Use 3.14 for  $\pi$ .
- Vof cylinder = 71 r<sup>2</sup>h = 3,14.7,2.4.7

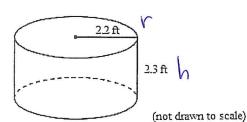


- A. 162.78 cm<sup>3</sup>
- B. 499.41 cm<sup>3</sup>
- C. 782.26 cm<sup>3</sup>
- D. 765.05 cm<sup>3</sup>
- (5) What is the volume of the cylinder? Use 3.14 for  $\pi$ .



V= Tr2h = 3,1403207

- A. 65.94 cm<sup>3</sup>
- B) 197.82 cm<sup>3</sup>
  - C. 28.26 cm<sup>3</sup>
  - D. 461.58 cm<sup>3</sup>
- What is the volume of the cylinder? Use 3.14 for  $\pi$ .



 $V = \pi r^2 h$ = 3.14 ° 2.2° 2.3

A. 36.54 ft<sup>3</sup>

- (B.) 34.95 ft<sup>3</sup>
  - C. 69.91 ft<sup>3</sup>
- D. 15.89 ft<sup>3</sup>





# Practice by Objective PA. D. L. 1

During the past winter the Bender family had monthly heating bills of \$79, \$146, \$212, \$149 and \$212. Which measure makes the bills appear the highest?

- A mean
- **B** median
- C mode
- D range

The Oklahoma Sooner football teams from 2000–2008 won the following number of football games.

13, 11, 12, 12, 12, 8, 11, 11, 12

Which two measures are the same for this data set?

- A mean and median
- B median and mode
- C mode and mean
- D range and mean

The following table shows the temperature highs in Oklahoma City for the first five days of the month of May. For the set of data, which measure is the greatest?

Day	Temperature (°F)				
1	79°				
2	57°				
3	62°				
4	64°				
5	62°				

- A mean
- B median
- C mode
- D range

Atohi read books with the following number of pages.

162, 234, 178, 320, 178, 186

What is the mean of the number of pages of the books he read?

- A 178
- **B** 182
- C 186
- D 210

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## **Practice by Objective**

8.5.3

PAO Dolol

During the past winter the Bender family had monthly heating bills of \$79, \$146, \$212, \$149 and \$212. Which measure makes the bills appear the highest?

A mean = 159.6

B median = 146

C mode=2/2

D range = 133

The Oklahoma Sooner football teams from 2000-2008 won the following number of football games.

> 13, 11, 12, 12, 12, 8, 11, 11, 12

Which two measures are the same for this data set?

A mean and median

- (B) median and mode
- C mode and mean
- D range and mean

The following table shows the temperature highs in Oklahoma City for the first five days of the month of May. For the set of data, which measure is the greatest?

Day	Temperature (°F)				
1	79°				
2	57°				
3	62°				
4	64°				
5	62°				

- **A** mean
- **B** median
- C mode
- **D** range

Atohi read books with the following number of pages.

162, 234, 178, 320, 178, 186

What is the mean of the number of pages of the books he read?

- A 178
- **B** 182
- C 186
- (D)210

mean is the average - add up the data and divide by the number of data items.

median is the middle # when data is in order.

mode is the #that occurs the most

runge is highest value minus lowest value Manye is Mastering the OCCT, Grade 8

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