

Q 1

1. Find the geometric mean of 3 and 27

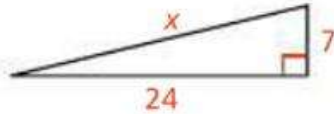
☐ a) 15☐ b) 30☐ c) 9☐ d) 3

Q 2

What is geometric mean of 4 and 9?

☐ a) 5☐ b) 6☐ c) 7☐ d) 8

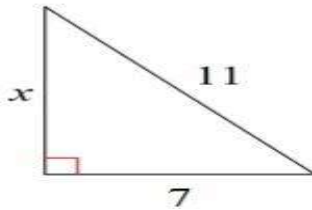
Q 3



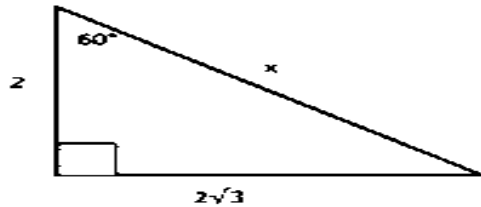
Find the value of x.

☐ a) 36☐ b) 12☐ c) 16☐ d) 25

Q 4

Solve for x. **SIMPLIFY** your radical answer completely.☐ a) $2\sqrt{6}$ ☐ b) $6\sqrt{2}$ ☐ c) $4\sqrt{6}$ ☐ d) $6\sqrt{4}$

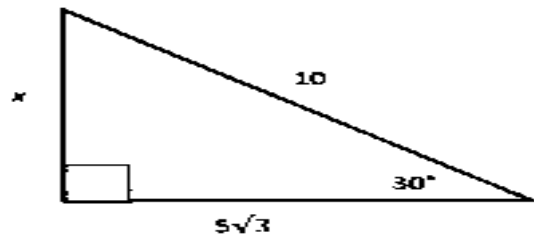
Q 5



Find x.

☐ a) 4☐ b) 2☐ c) $\sqrt{3}$ ☐ d) $2\sqrt{2}$

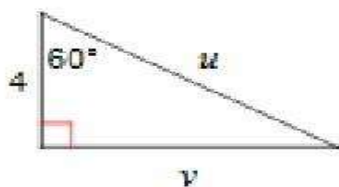
Q 6



Find x.

☐ a) 10☐ b) $\sqrt{3}$ ☐ c) 5☐ d) $10\sqrt{3}$

Q7

What is the length of u and v in this 30-60-90 triangle?

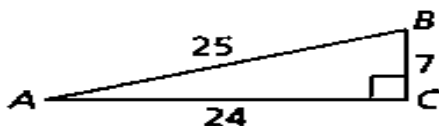
☐ a) $u = 8$ $v = 4\sqrt{3}$

☐ b) $u = 4\sqrt{2}$ $v = 8$

☐ c) $u = 16$ $v = 8$

☐ d) $u = 4\sqrt{3}$ $v = 8$

Q8

 $\sin A = ?$ 

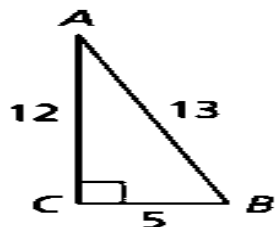
☐ a) $7/25$

☐ b) $24/25$

☐ c) $7/24$

☐ d) $25/7$

Q9

 $\cos B = ?$ 

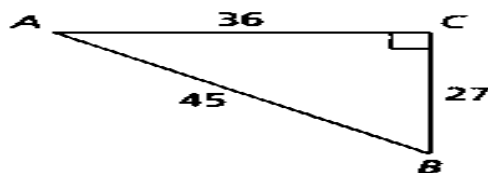
☐ a) $12/13$

☐ b) $12/5$

☐ c) $5/13$

☐ d) $5/12$

Q10

 $\tan A = ?$ 

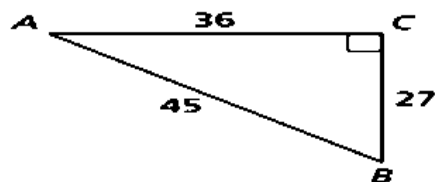
☐ a) $27/36$

☐ b) $36/27$

☐ c) $27/45$

☐ d) $36/45$

Q11

 $m\angle A = ?$ 

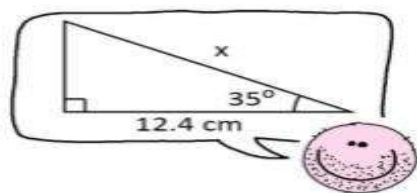
☐ a) 36.9°

☐ b) 38.7°

☐ c) 53.1°

☐ d) 30.1°

Q 12

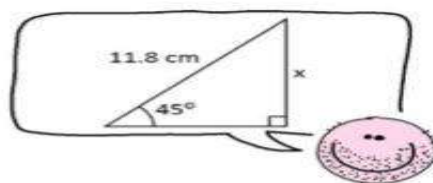


Find the length of the missing side x ...
Round your answer to 1 decimal place.

- ☐ a) 15.1 cm
☐ c) 10.1 cm

- ☐ b) 15.2 cm
☐ d) 10.2 cm

Q 13

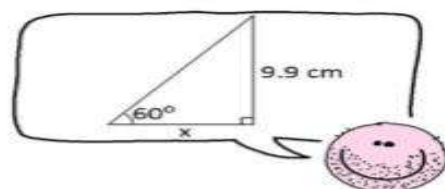


Find the length of the missing side x ...
Round your answer to 1 decimal place.

- ☐ a) 8.3 cm
☐ c) 11.8 cm

- ☐ b) 16.7 cm
☐ d) 8.4 cm

Q 14



Find the length of the missing side x ...
Round your answer to 1 decimal place.

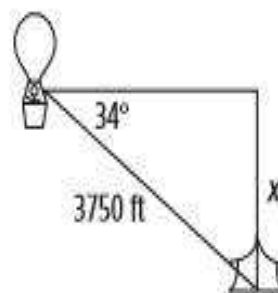
- ☐ a) 5.7 cm
☐ c) 17.1 cm

- ☐ b) 5.8 cm
☐ d) 8.6 cm

Q 15

What is the value of x to the nearest foot? **F**

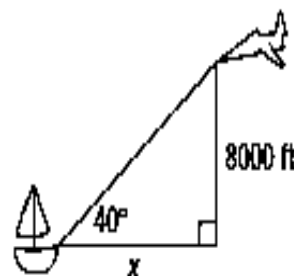
- ☐ F 2097 ft ☐ H 3108 ft
☐ G 2529 ft ☐ I 6706 ft



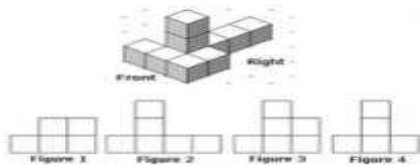
Q 16

What is the value of x to the nearest foot?

- ☐ A 6713 ft ☐ C 10,443 ft
☐ B 9534 ft ☐ D 12,445 ft



Q 17

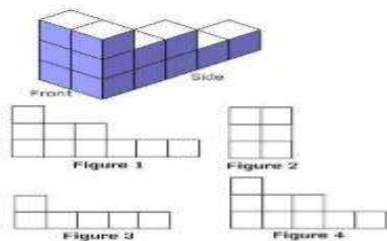


Identify the front view of the three-dimensional figure.

- ☐ a) Figure 4
- ☐ c) Figure 1

- ☐ b) Figure 2
- ☐ d) Figure 3

Q 18

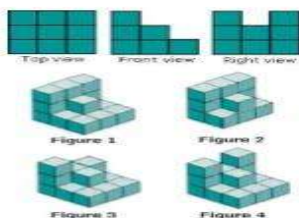


Which figure represents the side view of the three-dimensional figure shown?

- ☐ a) Figure 4
- ☐ c) Figure 2

- ☐ b) Figure 3
- ☐ d) Figure 1

Q 19

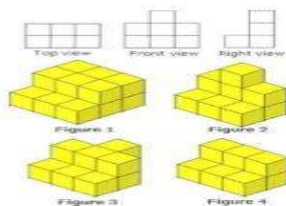


The front, right and top views of a three-dimensional figure are shown. Identify the figure.

- ☐ a) Figure 3
- ☐ c) Figure 2

- ☐ b) Figure 4
- ☐ d) Figure 1

Q 20

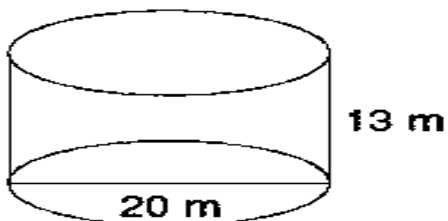


The front, side and top views of a three-dimensional figure are shown. Identify the figure.

- ☐ a) Figure 3
- ☐ c) Figure 1

- ☐ b) Figure 4
- ☐ d) Figure 2

Q 21



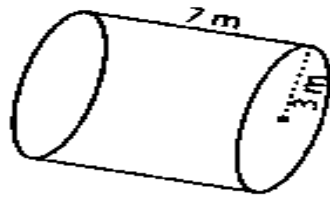
Find the lateral surface area of the figure.

- ☐ a) 456 m^2
- ☐ c) 1245 m^2

- ☐ b) 1444 m^2
- ☐ d) 816 m^2

Q 22

Find the surface area



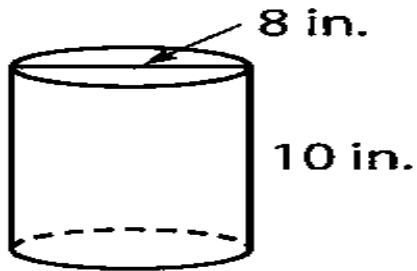
☐ a) 60.4 m^2

☐ c) 94.2 m^2

☐ b) 188.4 m^2

☐ d) 881.9 m^2

Q 23



Find the lateral surface area of the prism. Don't forget to divide the diameter by 2 to get the radius.

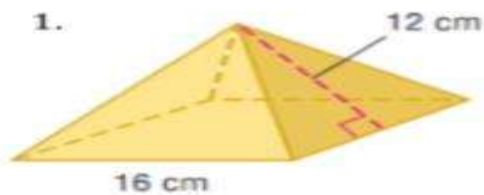
☐ a) 100.53 square inches

☐ c) 251.33 square inches

☐ b) 351.86 square inches

☐ d) 50.27 square inches

Q 24



What is the lateral area of the pyramid?

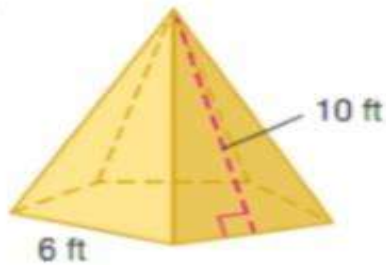
☐ a) 384 cm^2

☐ c) 640 cm^2

☐ b) 256 cm^2

☐ d) 28 cm^2

Q 25



What is the lateral area of this shape?

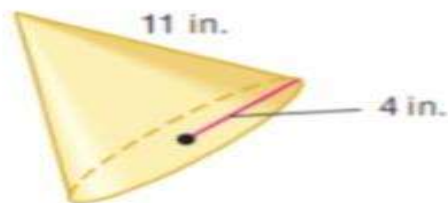
☐ a) 150 ft^2

☐ c) 225 ft^2

☐ b) 360 ft^2

☐ d) 250 ft^2

Q 26



What is the surface area of the cone?

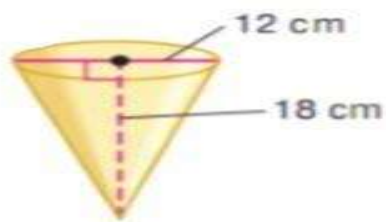
☐ a) 188.496 in^2

☐ b) 123.45 in^2

☐ c) 418.54 in^2

☐ d) 135.54 in^2

Q 27



What is the lateral area?

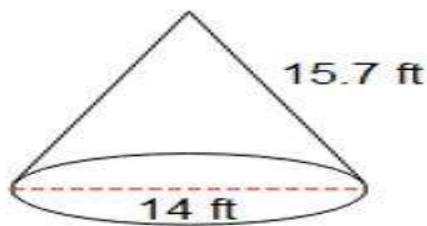
☐ a) 815.556 cm^2

☐ b) 1267.95 cm^2

☐ c) 452.389 cm^2

☐ d) 189.432 cm^2

Q 28



Find the lateral area.

☐ a) 345.26 ft^2

☐ b) 499.20 ft^2

☐ c) 1306.27 ft^2

☐ d) 690.52 ft^2

Answer Key

1 c 2 b 3 d 4 b 5 c 6 a 7 a 8 a 9 d 10 a 11 a 12 a

13 a 14 a 15 a 16 b 17 a 18 a 19 b 20 d 21 d 22 b

23 d 24 a 25 a 26 a 27 a 28 a