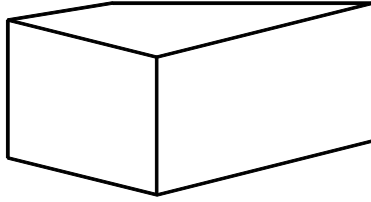
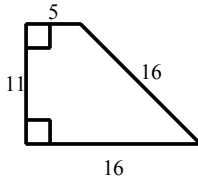
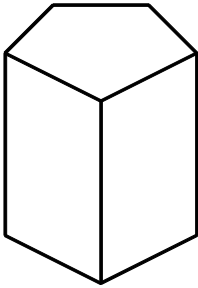


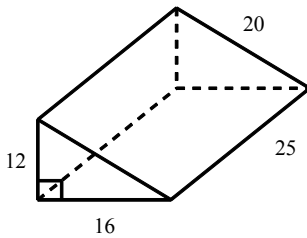
1. A base of a right prism whose height is 7 yards is the trapezoid shown. Find the surface area of the prism. Dimensions are in yards.



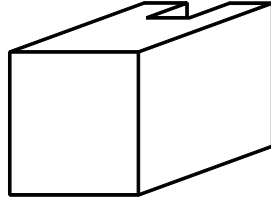
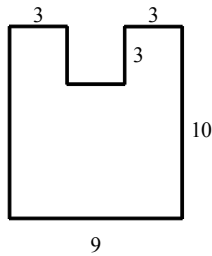
2. The area of a base of a right pentagonal prism is  $172 \text{ cm}^2$  and the length of a lateral edge is 19 cm. Find the volume of the right pentagonal prism.



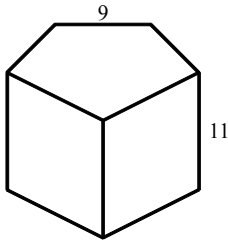
3. Find the volume and the total surface area of the right triangular prism. Dimensions are in meters.



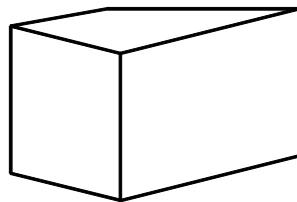
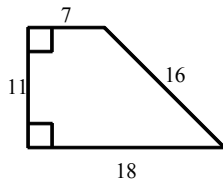
4. A base of a right prism whose height is 10 meters is shown. Find the volume of the prism. All angles are right angles. Dimensions are in meters.



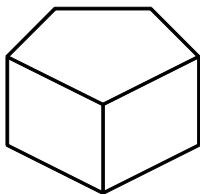
5. Find the lateral surface area of this right prism whose bases are regular pentagons. Dimensions are in centimeters.



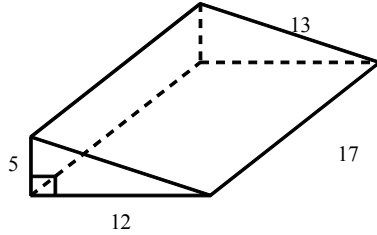
6. A base of a right prism whose height is 9 feet is the trapezoid shown. Find the surface area of the prism. Dimensions are in feet.



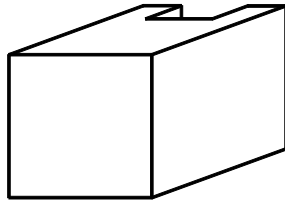
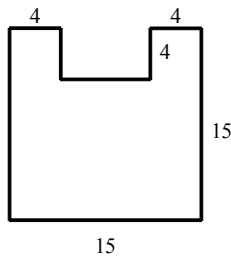
7. The area of a base of a right pentagonal prism is  $291 \text{ m}^2$  and the length of a lateral edge is 12 m. Find the volume of the right pentagonal prism.



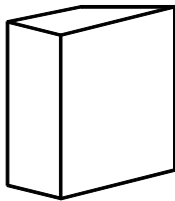
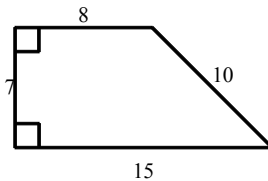
8. Find the volume and the total surface area of the right triangular prism. Dimensions are in yards.



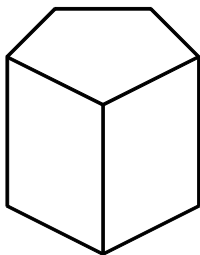
9. A base of a right prism whose height is 15 feet is shown. Find the volume of the prism. All angles are right angles. Dimensions are in feet.



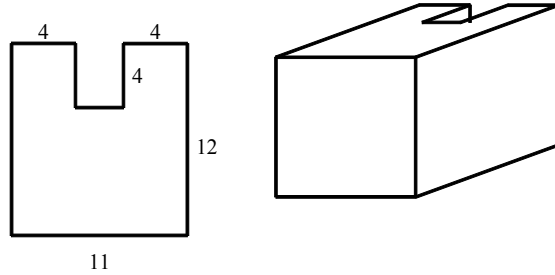
10. A base of a right prism whose height is 10 centimeters is the trapezoid shown. Find the surface area of the prism. Dimensions are in centimeters.



11. The area of a base of a right pentagonal prism is  $139 \text{ in.}^2$  and the length of a lateral edge is 14 in.. Find the volume of the right pentagonal prism.



12. A base of a right prism whose height is 11 centimeters is shown. Find the volume of the prism. All angles are right angles. Dimensions are in centimeters.



13. During the sale, the price of the shoes was marked down 21 percent. The sale price of the shoes was \$97. What was the original price of the shoes?
14. The experimental treatment caused side effects in 15% of those who had it. If 510 experienced side effects, how many people had the experimental treatment?
15. Anton peeked around the bush and spied 270 gnomes gathered in the glen. If this was 35 percent more than Harmony spied under the tree, how many gnomes did Harmony spy?
16. The number of bacteria increased by 370 percent overnight. If there were 20,000 bacteria yesterday, how many bacteria were present this morning?
17. The advertisement of the super blow-out sale caused the number of shoppers to increase by 140 percent. If 360 shoppers were there before the advertisement, how many were there after the advertisement?

Simplify:

18.  $\frac{p+q}{\frac{1}{r}}$

19.  $\frac{\frac{k}{y}}{\frac{z}{y+k}}$

Simplify:

20. 
$$\frac{\frac{1}{w+x}}{\frac{1}{y}}$$

21. 
$$\frac{\frac{f}{d}}{\frac{e}{d+f}}$$

22. Given the sets  $A = \{-2, 1, 4, 6\}$ ,  $B = \{1, 6\}$ , and  $C = \{-2, 0, 1, 3\}$ , tell which of the following statements are true and which are false.

- a)
- $3 \notin A$
- b)
- $6 \notin B$
- c)
- $1 \in B$
- d)
- $0 \in C$

Graph:

23.  $x - y = 4$

24.  $2x + 4y = 8$

25. Given the sets  $A = \{0, 3, 6, 7\}$ ,  $B = \{3, 7\}$ , and  $C = \{0, 1, 3, 4\}$ , tell which of the following statements are true and which are false.

- a)
- $4 \notin B$
- b)
- $6 \in C$
- c)
- $7 \notin A$
- d)
- $6 \in A$

26. Graph:  $4x - y = 4$