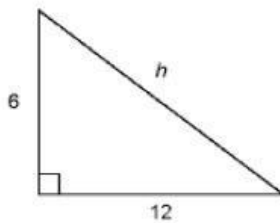
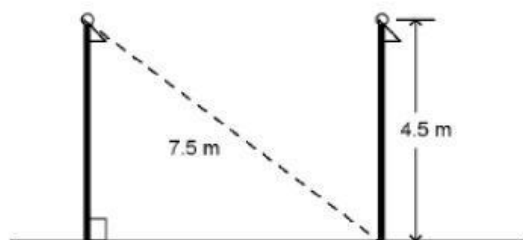


1. Which of these numbers is a perfect square: 50, 20, 25, or 15?
a. 50 b. 20 c. 25 d. 15
2. What is the side length of a square with area 25 cm^2 ?
a. 5 cm b. 12.5 cm c. 6.25 cm d. 20 cm
3. Find 8^2 .
a. 8 b. 64 c. 16 d. 32
4. Which whole number is $\sqrt{8}$ closer to?
a. 5 b. 4 c. 3 d. 2
5. The area of square P is 52 cm^2 .
Square Q has an area equal to one quarter the area of square P.
Find the approximate side length of square Q.
Give your answer to 1 decimal place.
a. 3.6 cm b. 5.1 cm c. 13 cm d. 1.8 cm
6. Find the length of the hypotenuse. Give your answer to 1 decimal place.

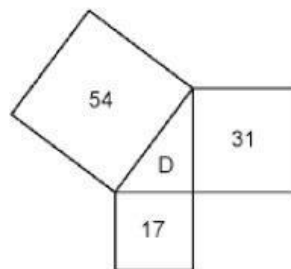
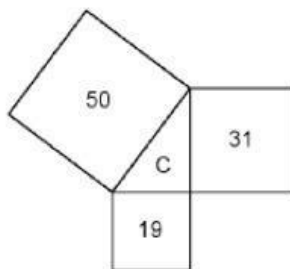
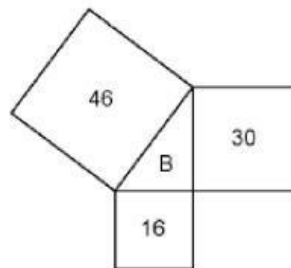
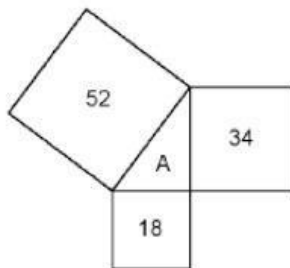


- a. 144.0 b. 10.4 c. 13.4 d. 36.0
8. In a right triangle, the length of the hypotenuse is 18 m and the length of one of the legs is 15 m.
Find the length of the other leg. Round your answer to the nearest tenth.
a. 5.0 m b. 6.8 m c. 9.9 m d. 23.4 m
9. This diagram shows 2 flag poles that are 4.5 m tall. The distance from the top of the left pole to the base of the right pole is 7.5 m. What is the distance between the 2 flag poles?



- a. 5.0 m b. 6.0 m c. 3.0 m d. 4.5 m
10. Find the product $(+5) \times (-9)$. Use a number line if necessary.
a. -45 b. +45 c. +14 d. -4

7. The area, in square centimetres, of the square on each side of a triangle is given.
Which triangle is NOT a right triangle?



- a. Triangle D b. Triangle C c. Triangle B d. Triangle A
11. Replace $\square$ with an integer to make the equation true.
 $\square \times (-5) = -30$
a. +6 b. -6 c. -25 d. +25
12. Find this product. $(-15) \times (-8)$
a. -120 b. +120 c. +23 d. -23
13. Find the quotient $(-21) \div (-3)$. Use a number line if it helps.
a. -24 b. -7 c. -18 d. +7
14. Evaluate. $9 + (-7) - (-4)$
a. 6 b. -2 c. 12 d. 20
15. Evaluate. $(-6)[(-3) + 9]$
a. 72 b. -36 c. -72 d. 27
16. Evaluate. $-13 + 9 \div (-3) + 9$
a. 1 b. -1 c. 7 d. -7

17. Multiply. $2 \times \frac{7}{12}$

a. $\frac{7}{24}$

b. $\frac{7}{6}$

c. $\frac{3}{4}$

d. $\frac{31}{12}$

18. Find this product. $\frac{4}{5} \times \frac{15}{20}$

a. $\frac{19}{25}$

b. $\frac{2}{3}$

c. $\frac{3}{5}$

d. $\frac{19}{100}$

19. Find the reciprocal of $\frac{2}{11}$.

a. $\frac{-11}{2}$

b. $\frac{-2}{-11}$

c. $\frac{-2}{11}$

d. $\frac{11}{2}$

20. Write $3\frac{2}{3}$ as an improper fraction.

a. $\frac{11}{3}$

b. $\frac{5}{3}$

c. $\frac{8}{3}$

d. $\frac{15}{3}$

21. Multiply. $1\frac{1}{3} \times 2\frac{1}{3}$

a. $3\frac{1}{9}$

b. $2\frac{1}{9}$

c. $1\frac{2}{9}$

d. $3\frac{2}{3}$

22. Find this quotient. $8 \div \frac{1}{3}$

a. 24

b. $2\frac{2}{3}$

c. $\frac{3}{8}$

d. $\frac{1}{24}$

23. Find this quotient. $\frac{8}{12} \div 4$

a. 6

b. $\frac{1}{6}$

c. $\frac{2}{3}$

d. $\frac{8}{3}$

24. Find this quotient. $\frac{5}{3} \div \frac{15}{7}$

a. $3\frac{4}{7}$

b. $\frac{7}{9}$

c. $\frac{7}{15}$

d. $2\frac{2}{15}$

25. Divide. $\frac{4}{5} \div \frac{5}{4}$

a. 1

b. $\frac{16}{25}$

c. $1\frac{9}{16}$

d. $\frac{8}{25}$

26. Divide. $2\frac{1}{3} \div 2\frac{1}{2}$

a. $\frac{14}{15}$

b. $5\frac{5}{6}$

c. $\frac{2}{3}$

d. $1\frac{1}{14}$

27. Which operation would you do first?

$$\frac{5}{6} \times \left(\frac{6}{7} + \frac{7}{8} \right) \div \frac{8}{7} - \frac{5}{6}$$

a. Addition

b. Subtraction

c. Multiplication

d. Division

28. Which operation would you do first?

$$\left(\frac{5}{6} - \frac{7}{8} \right) \times \frac{6}{7} \div \frac{5}{6} + \frac{6}{5}$$

a. Addition

b. Subtraction

c. Multiplication

d. Division

29. Evaluate. $\frac{2}{3} + \frac{3}{5} \times \frac{15}{4}$

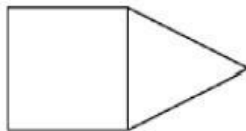
a. $2\frac{11}{12}$

b. $4\frac{3}{4}$

c. $1\frac{1}{4}$

d. $2\frac{1}{12}$

30. This is an incomplete net for a triangular prism. What shapes do you add to complete this net?



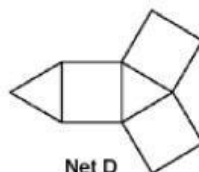
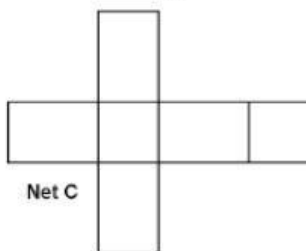
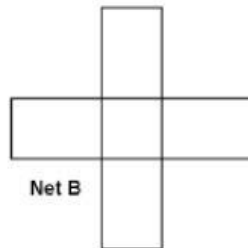
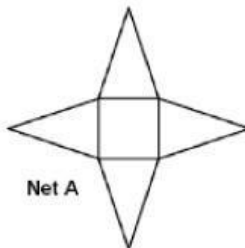
a. 3 squares

b. 1 triangle and 2 squares

c. 1 triangle and 3 squares

d. 3 triangles

31. Which diagram is the net for a square pyramid?



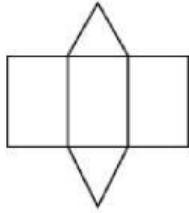
a. Net A

b. Net B

c. Net C

d. Net D

32. Name the polyhedron that can be made from this net.

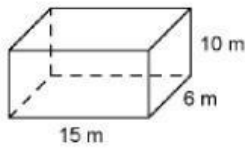


- a. Rectangular pyramid
b. Triangular prism
c. Rectangular prism
d. Triangular pyramid

33. How many triangular faces are there in a pentagonal pyramid?

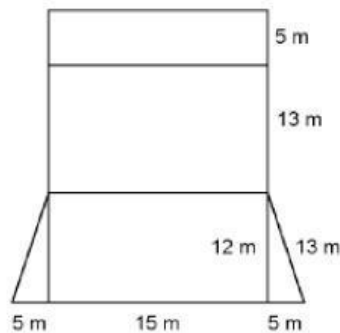
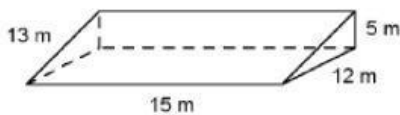
- a. 1
b. 5
c. 2
d. 3

34. Find the surface area of this right rectangular prism.



- a. 420 m^2
b. 300 m^2
c. 600 m^2
d. 480 m^2

35. Use the net to find the surface area of the right triangular prism.

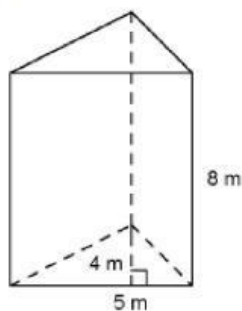


- a. 90 m^2
b. 585 m^2
c. 510 m^2
d. 2340 m^2

36. A right rectangular prism measures 9 cm by 7 cm by 10 cm. What is the volume of the prism?

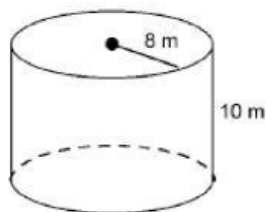
- a. 630 cm^3
b. 104 cm^3
c. 223 cm^3
d. 156 cm^3

37. Find the volume of this triangular prism.



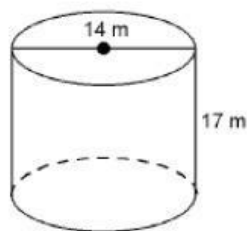
- a. 160 m^3 b. 80 m^3 c. 320 m^3 d. 184 m^3

38. Find the surface area of this cylinder to the nearest square metre.



- a. 905 m^2 b. 704 m^2 c. 653 m^2 d. 452 m^2

39. Find the volume of this cylinder. Round your answer to the nearest tenth.



- a. 747.7 m^3 b. 373.8 m^3 c. 2616.9 m^3 d. 238 m^3

40. Write 76% as a decimal.

- a. 7.6 b. 0.76 c. 0.076 d. 76