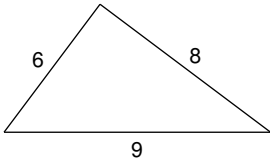


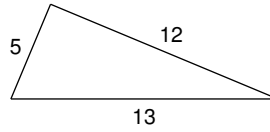
## The Pythagorean Theorem

Do the following lengths form a right triangle?

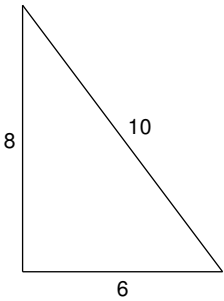
1)



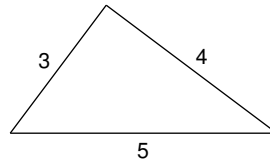
2)



3)

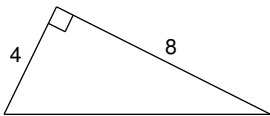


4)

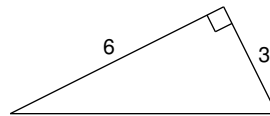
5)  $a = 6.4$ ,  $b = 12$ ,  $c = 12.2$ 6)  $a = 2.1$ ,  $b = 7.2$ ,  $c = 7.5$ 

Find each missing length to the nearest tenth.

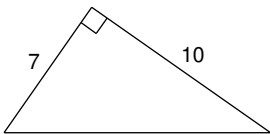
7)



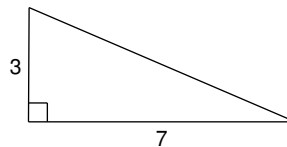
8)



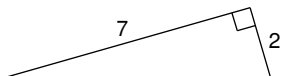
9)



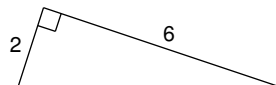
10)



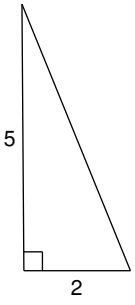
11)



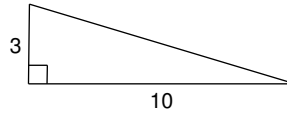
12)



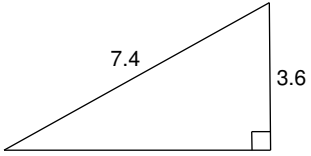
13)



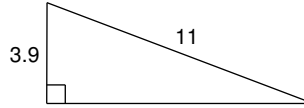
14)



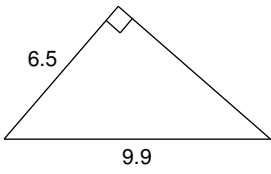
15)



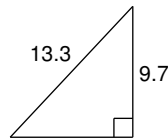
16)



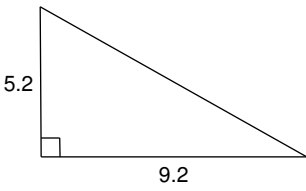
17)



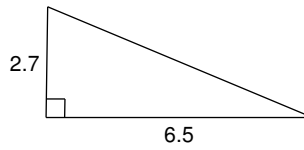
18)



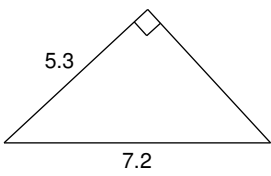
19)



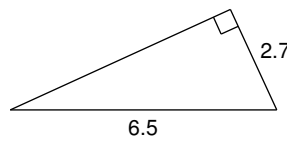
20)



21)



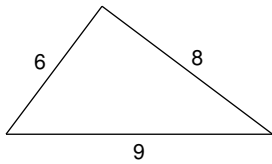
22)



## The Pythagorean Theorem

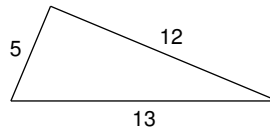
Do the following lengths form a right triangle?

1)



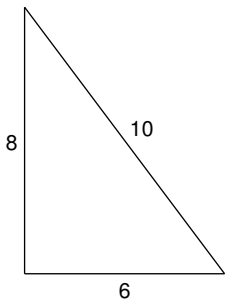
No

2)



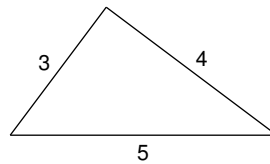
Yes

3)



Yes

4)



Yes

5)  $a = 6.4$ ,  $b = 12$ ,  $c = 12.2$ 

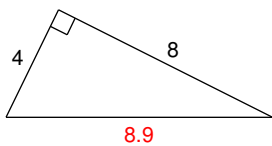
No

6)  $a = 2.1$ ,  $b = 7.2$ ,  $c = 7.5$ 

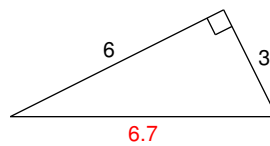
Yes

Find each missing length to the nearest tenth.

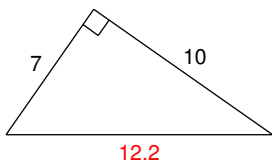
7)



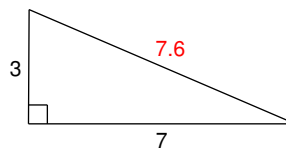
8)



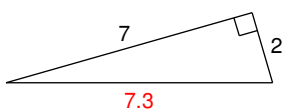
9)



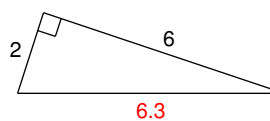
10)



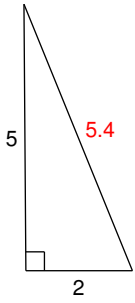
11)



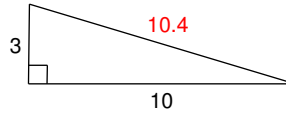
12)



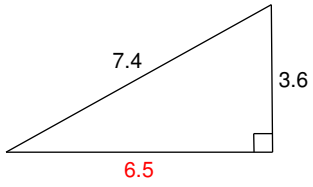
13)



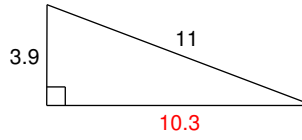
14)



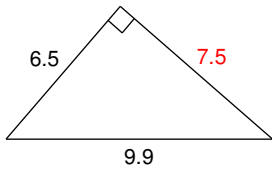
15)



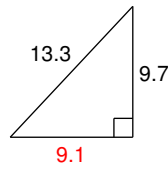
16)



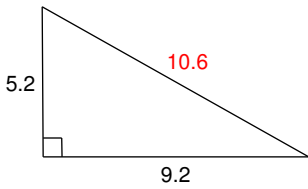
17)



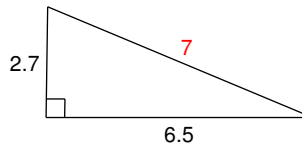
18)



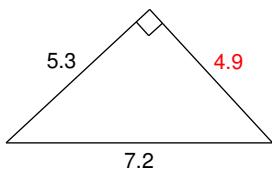
19)



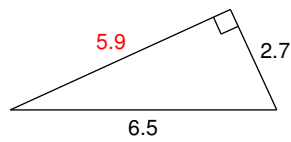
20)



21)

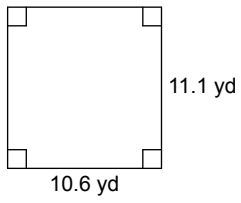


22)

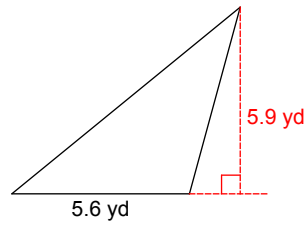


Find the area of each.

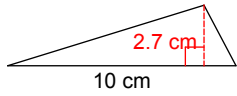
55)



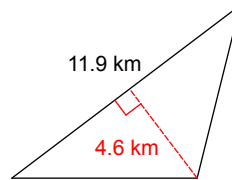
56)



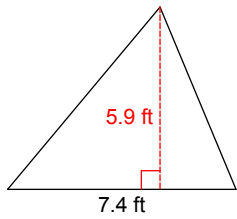
57)



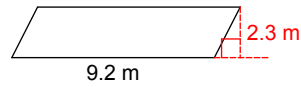
58)



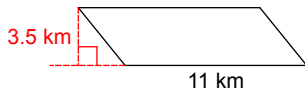
59)



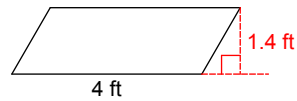
60)



61)

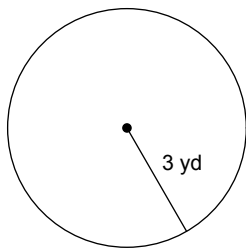


62)

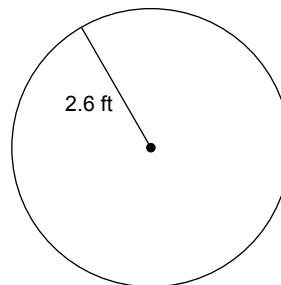


Find the area of each. Round your answer to the nearest tenth.

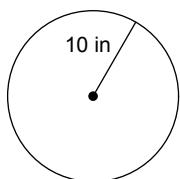
63)



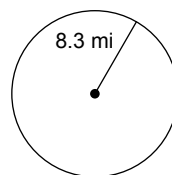
64)



65)

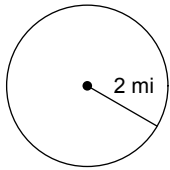


66)

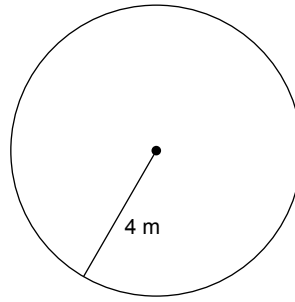


**Find the circumference of each circle. Round your answer to the nearest tenth.**

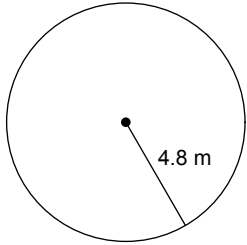
67)



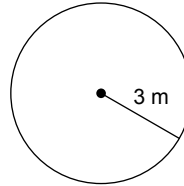
68)



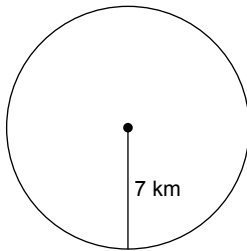
69)



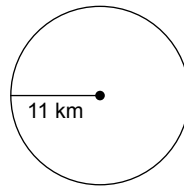
70)



71)

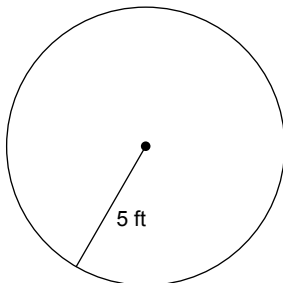


72)

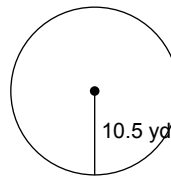


**Find the diameter of each circle. Round your answer to the nearest tenth.**

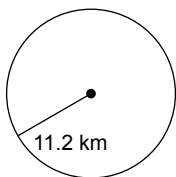
73)



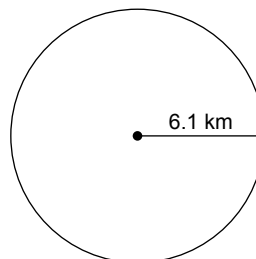
74)



75)

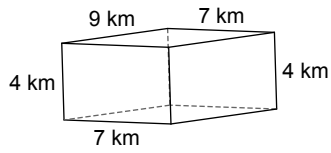


76)

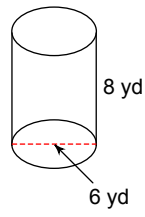


Find the surface area of each figure. Round to the nearest tenth.

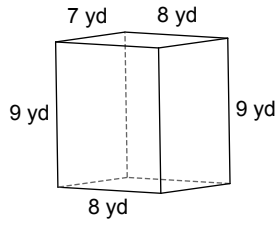
77)



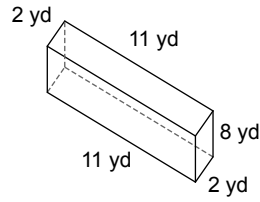
78)



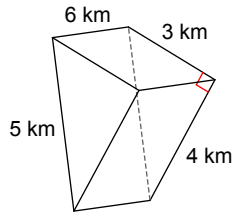
79)



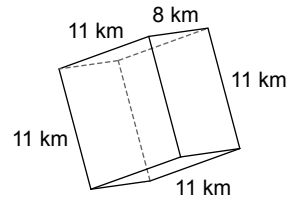
80)



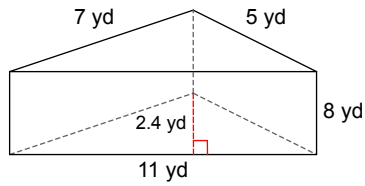
81)



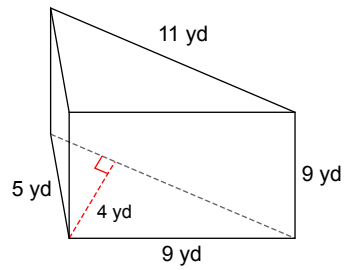
82)



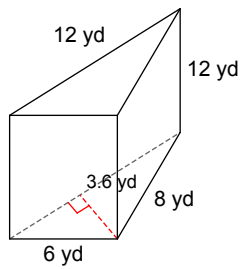
83)



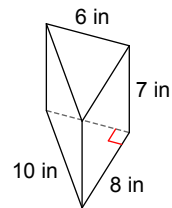
84)



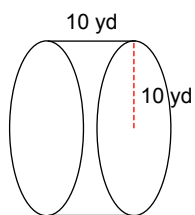
85)



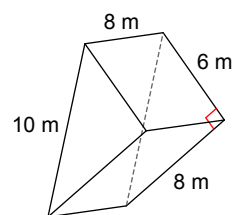
86)



87)

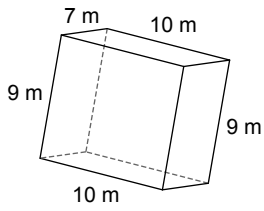


88)

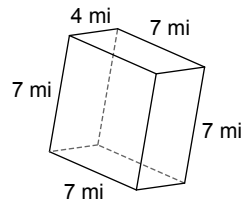


Find the volume of each figure. Round to the nearest tenth.

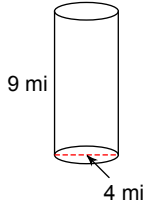
89)



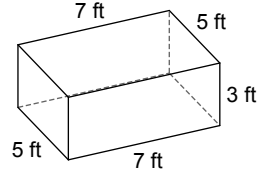
90)



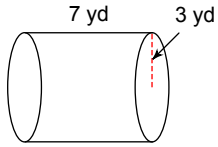
91)



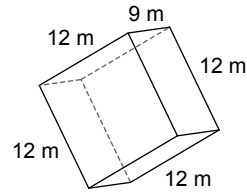
92)



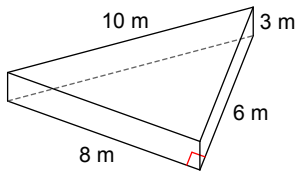
93)



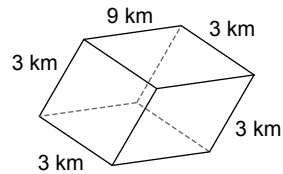
94)



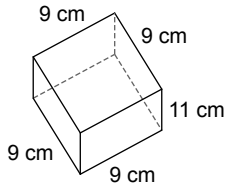
95)



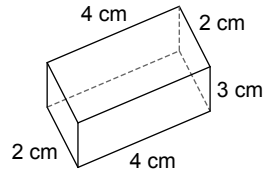
96)



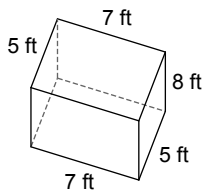
97)



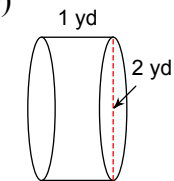
98)



99)



100)





## Answers to Algebra and Geometry

- |                                    |                                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 1) $\{18\}$                        | 2) $\{-9\}$                        | 3) $\{-24\}$                       | 4) $\{-7\}$                        |
| 5) $\{-20\}$                       | 6) $\{12\}$                        | 7) $\{-15\}$                       | 8) $\{16\}$                        |
| 9) $\{1\}$                         | 10) $\{-18\}$                      | 11) $\{8\}$                        | 12) $\{4\}$                        |
| 13) $\{-14\}$                      | 14) $\{16\}$                       | 15) $\{-17\}$                      | 16) $\{-5\}$                       |
| 17) $\left\{\frac{2}{3}\right\}$   | 18) $\left\{1\frac{5}{9}\right\}$  | 19) $\left\{-\frac{7}{8}\right\}$  | 20) $\left\{-1\frac{2}{3}\right\}$ |
| 21) $\left\{-\frac{6}{13}\right\}$ | 22) $\{1\}$                        | 23) $\{7\}$                        | 24) $\{3\}$                        |
| 25) $\{7\}$                        | 26) $\{4\}$                        | 27) $\{-6\}$                       | 28) $\{-5\}$                       |
| 29) $\{5\}$                        | 30) $\{-7\}$                       | 31) $\{6\}$                        | 32) $\{-6\}$                       |
| 33) $\{-8\}$                       | 34) $\{-8\}$                       | 35) $\{-5\}$                       | 36) $\{8\}$                        |
| 37) $\{5\}$                        | 38) $\{-5\}$                       | 39) $\{-7\}$                       | 40) $\{-4\}$                       |
| 41) $\{4\}$                        | 42) $\{7\}$                        | 43) $\{-2\}$                       | 44) $\{2\}$                        |
| 45) $\{1\}$                        | 46) $\{-4\}$                       | 47) $\{2\}$                        | 48) $\{1\}$                        |
| 49) $\{-4\}$                       | 50) $\left\{-3\frac{1}{2}\right\}$ | 51) $\left\{-3\frac{1}{2}\right\}$ | 52) $\left\{-3\frac{3}{4}\right\}$ |
| 53) $\left\{-3\frac{2}{3}\right\}$ | 54) $\{-4\}$                       | 55) $117.66 \text{ yd}^2$          | 56) $16.52 \text{ yd}^2$           |
| 57) $13.5 \text{ cm}^2$            | 58) $27.37 \text{ km}^2$           | 59) $21.83 \text{ ft}^2$           | 60) $21.16 \text{ m}^2$            |
| 61) $38.5 \text{ km}^2$            | 62) $5.6 \text{ ft}^2$             | 63) $28.3 \text{ yd}^2$            | 64) $21.2 \text{ ft}^2$            |
| 65) $314.2 \text{ in}^2$           | 66) $216.4 \text{ mi}^2$           | 67) $12.6 \text{ mi}$              | 68) $25.1 \text{ m}$               |
| 69) $30.2 \text{ m}$               | 70) $18.8 \text{ m}$               | 71) $44 \text{ km}$                | 72) $69.1 \text{ km}$              |
| 73) $10 \text{ ft}$                | 74) $21 \text{ yd}$                | 75) $22.4 \text{ km}$              | 76) $12.2 \text{ km}$              |
| 77) $254 \text{ km}^2$             | 78) $207.3 \text{ yd}^2$           | 79) $382 \text{ yd}^2$             | 80) $252 \text{ yd}^2$             |
| 81) $84 \text{ km}^2$              | 82) $594 \text{ km}^2$             | 83) $210.4 \text{ yd}^2$           | 84) $269 \text{ yd}^2$             |
| 85) $355.2 \text{ yd}^2$           | 86) $216 \text{ in}^2$             | 87) $1256.6 \text{ yd}^2$          | 88) $240 \text{ m}^2$              |
| 89) $630 \text{ m}^3$              | 90) $196 \text{ mi}^3$             | 91) $113.1 \text{ mi}^3$           | 92) $105 \text{ ft}^3$             |
| 93) $197.9 \text{ yd}^3$           | 94) $1296 \text{ m}^3$             | 95) $72 \text{ m}^3$               | 96) $81 \text{ km}^3$              |
| 97) $891 \text{ cm}^3$             | 98) $24 \text{ cm}^3$              | 99) $280 \text{ ft}^3$             | 100) $3.1 \text{ yd}^3$            |