PERIMETER OF TRIANGLES

Find the value of x. Also, calculate the length of each side.

1)   Perimeter = 30.5 cm

J, with sides $x + 3.5$ (LJ), $6 + x$ (JK), $2x + 3$ (LK), vertices L, K

x = [ ]   ;   JK = [ ]

KL = [ ]   ;   LJ = [ ]

2)   Perimeter = 17.4 m

Y, with sides $4x - 5$ (YZ), $2x + 3.2$ (YX), $x + 5.2$ (ZX), vertices Z, X
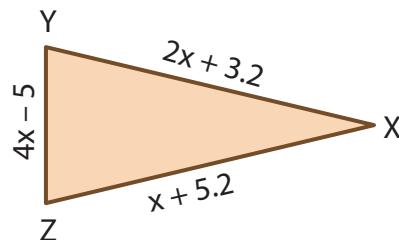
x = [ ]   ;   XY = [ ]

YZ = [ ]   ;   ZX = [ ]

3)   Perimeter = 18 mm

U —— x —— V, sides x (WU), x (VW), vertex W
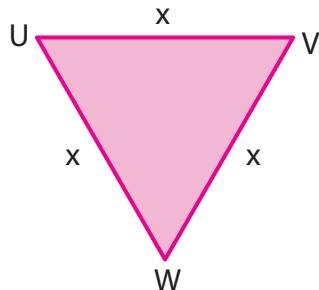
x = [ ]   ;   UV = [ ]

VW = [ ]   ;   WU = [ ]

4)   Perimeter = 22 mm

N, with sides $x + 2.5$ (NO), $x + 1$ (MN), $x - 1$ (OM), vertices O, M

x = [ ]   ;   MN = [ ]

NO = [ ]   ;   OM = [ ]

5)   Perimeter = 19 m

R, with sides $2x$ (RP), $3x - 2$ (QR), $x + 3$ (PQ), vertices P, Q
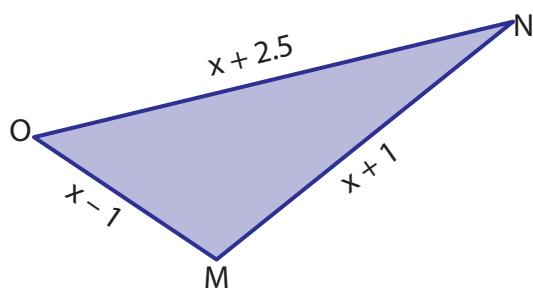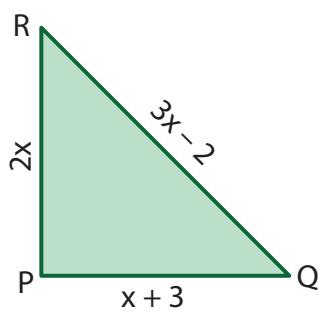
x = [ ]   ;   PQ = [ ]

QR = [ ]   ;   RP = [ ]

6)   Perimeter = 21 cm

A, with sides $2x - 3$ (AB), vertices B, C
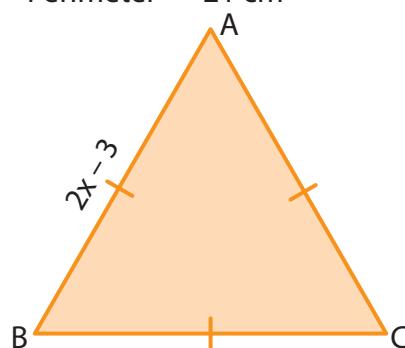
x = [ ]   ;   AB = [ ]

BC = [ ]   ;   CA = [ ]

PERIMETER OF TRIANGLES

Answer key

PT:28

Find the value of x. Also, calculate the length of each side.

1) Perimeter = 30.5 cm
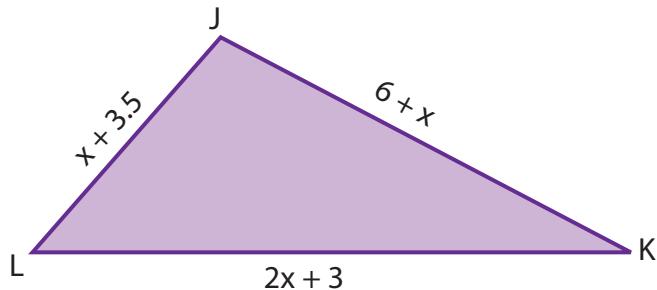
x = **4.5** ; JK = **10.5 cm**

KL = **12 cm** ; LJ = **8 cm**

2) Perimeter = 17.4 m
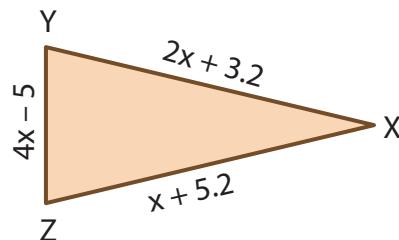
x = **2** ; XY = **7.2 m**

YZ = **3 m** ; ZX = **7.2 m**

3) Perimeter = 18 mm
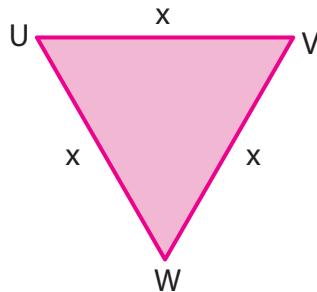
x = **6** ; UV = **6 mm**

VW = **6 mm** ; WU = **6 mm**

4) Perimeter = 22 mm
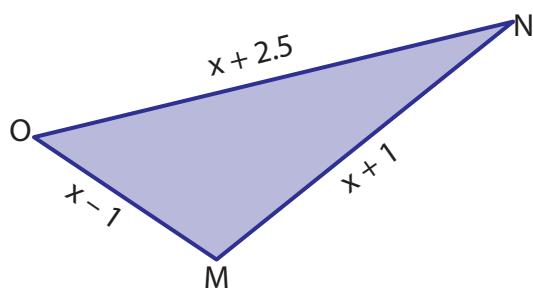
x = **6.5** ; MN = **7.5 mm**

NO = **9 mm** ; OM = **5.5 mm**

5) Perimeter = 19 m
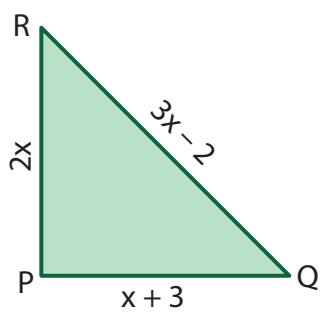
x = **3** ; PQ = **6 m**

QR = **7 m** ; RP = **6 m**

6) Perimeter = 21 cm

x = **5** ; AB = **7 cm**

BC = **7 cm** ; CA = **7 cm**