Similar Shapes: Triangles 1

1. In each of the following diagrams find the length of the unknown side.
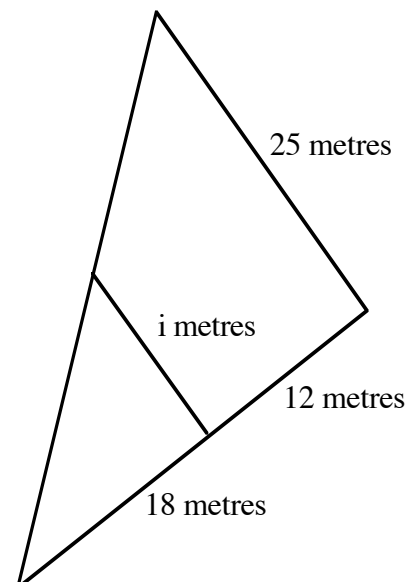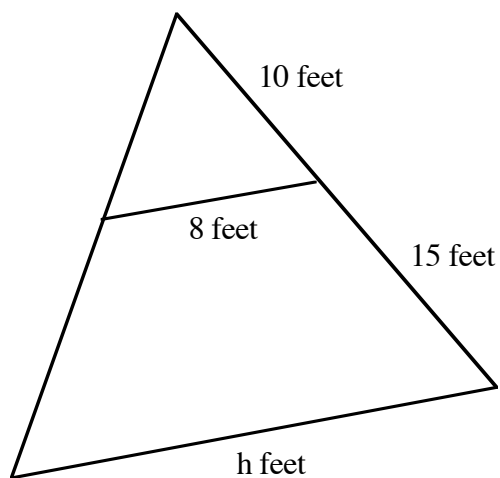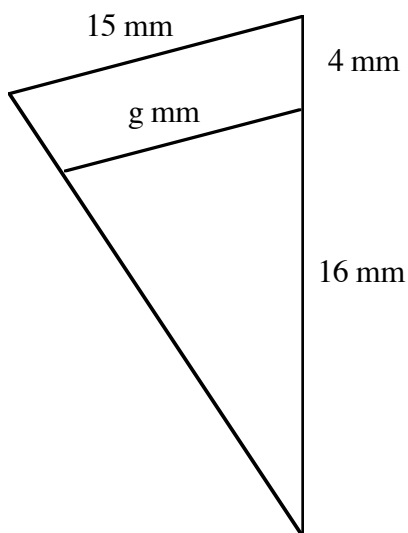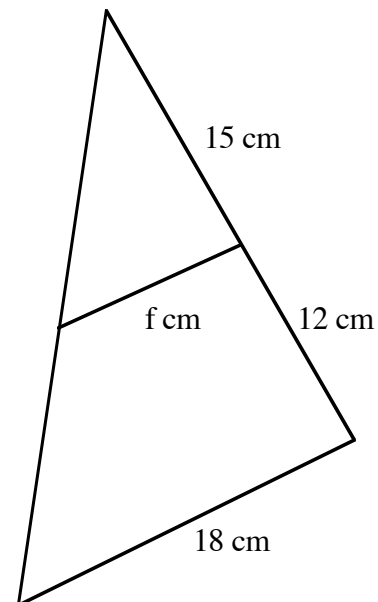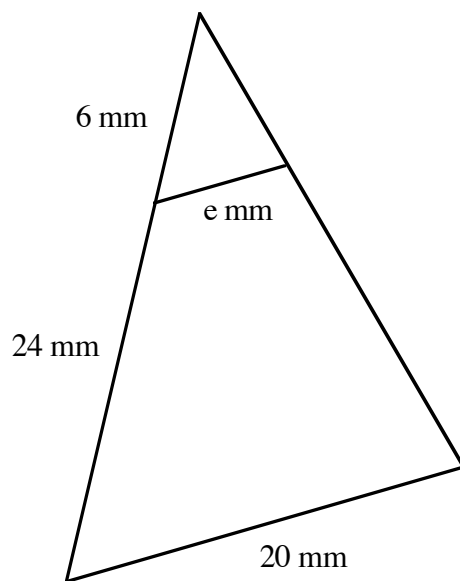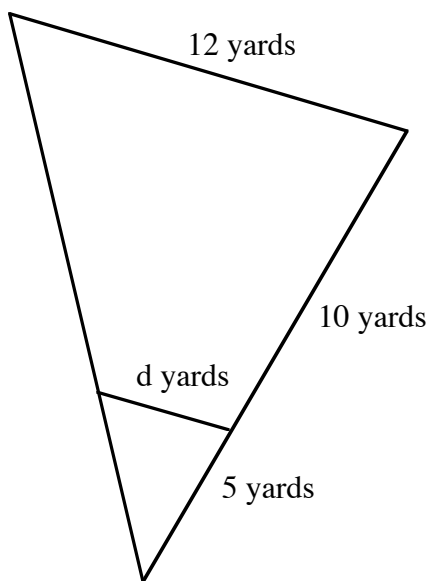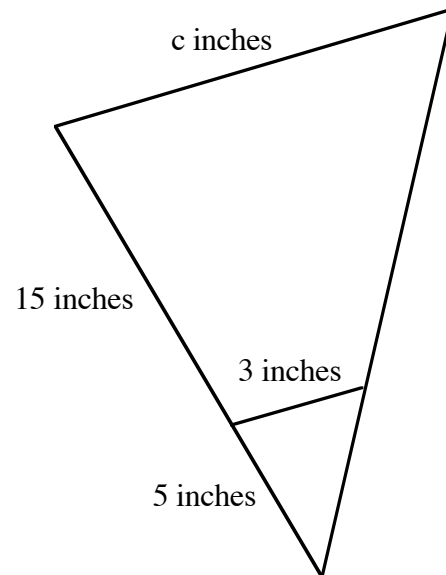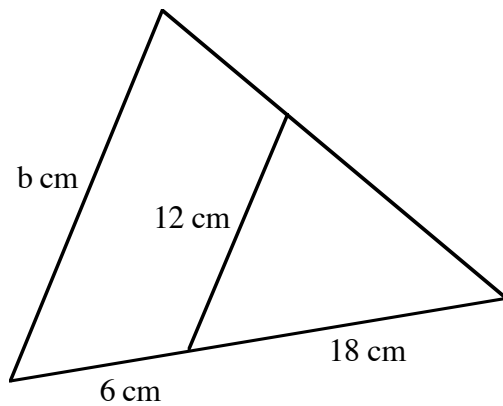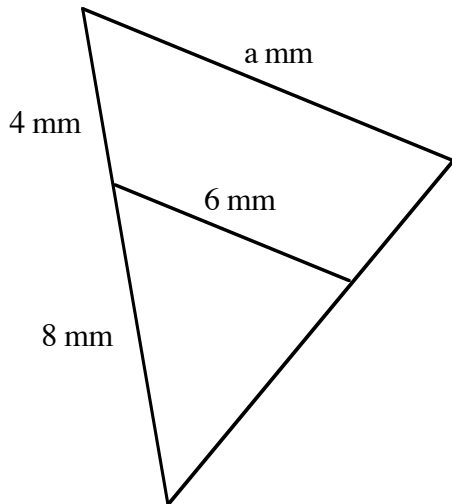
a mm

4 mm

6 mm

8 mm

b cm

12 cm

6 cm

18 cm

c inches

15 inches

3 inches

5 inches

12 yards

10 yards

d yards

5 yards

6 mm

e mm

24 mm

20 mm

15 cm

f cm

12 cm

18 cm

15 mm

4 mm

g mm

16 mm

10 feet

8 feet

15 feet

h feet

25 metres

i metres

12 metres

18 metres

2. In each of the following diagrams find the length of the unknown side.

20 yards

a yards

8 yards

6 yards

21 cm

14 cm

10 cm

b cm

9 feet

6 feet

c feet

12 feet

d m

35 m
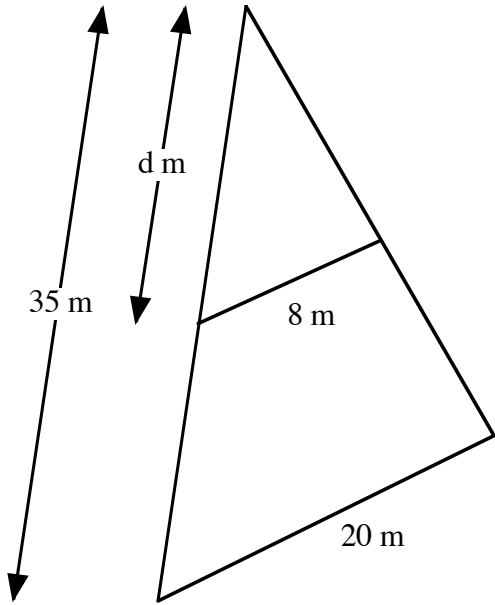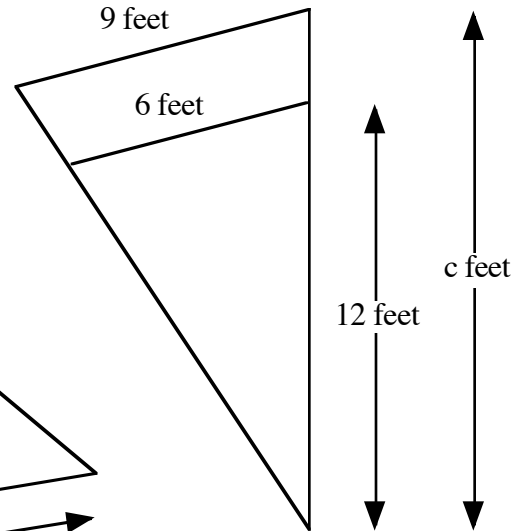
8 m

20 m

20 inches

16 inches

5 inches

e inches

24 cm

16 cm

f cm

15 cm

16 cm

12 cm

20 cm

g cm

3. In each of the following diagrams find the length of the unknown side.

21 yards

6 yards

4 yards

a yards

21 cm

14 cm

10 cm

b cm

9 feet

12 feet

c feet

6 feet

20 inches

24 inches

d inches

8 inches
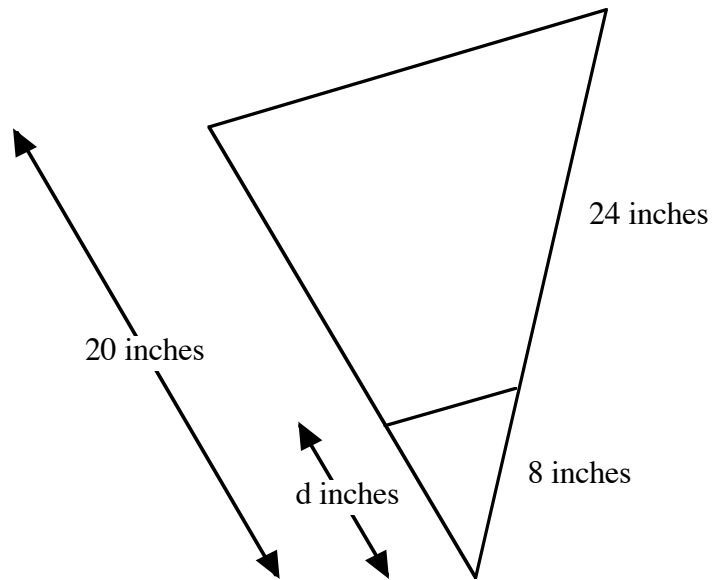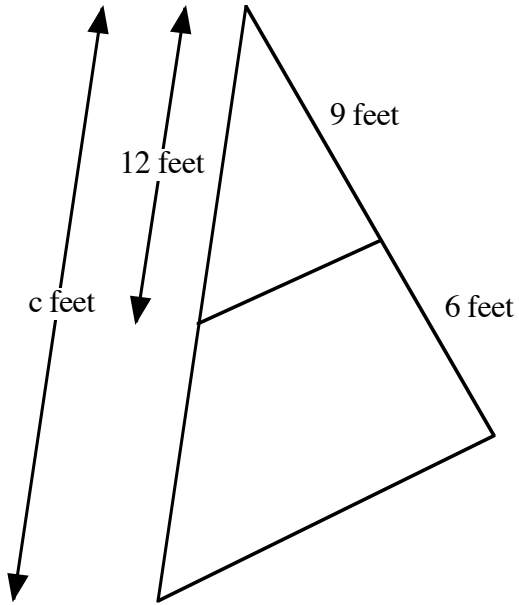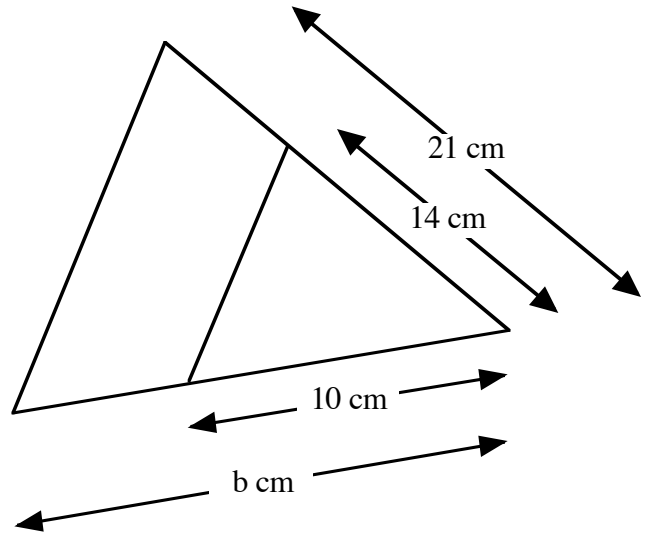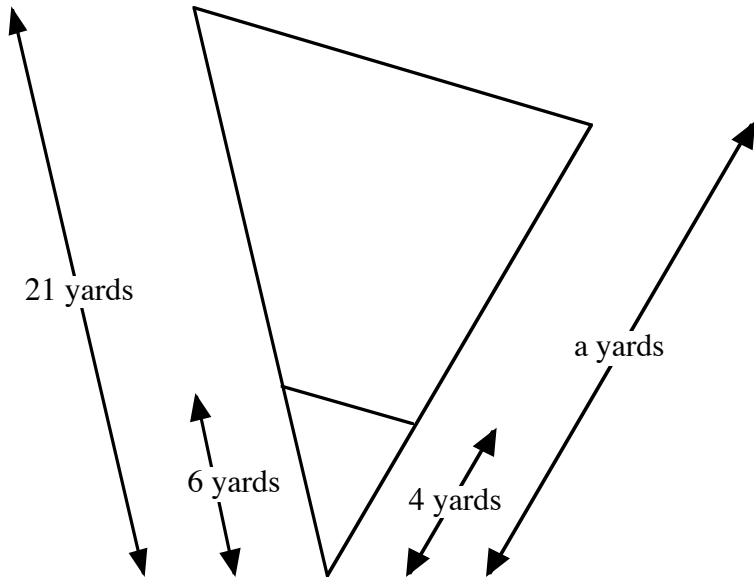
6 cm

12 cm

e cm

21 cm

24 cm

f cm

7 cm

14 cm
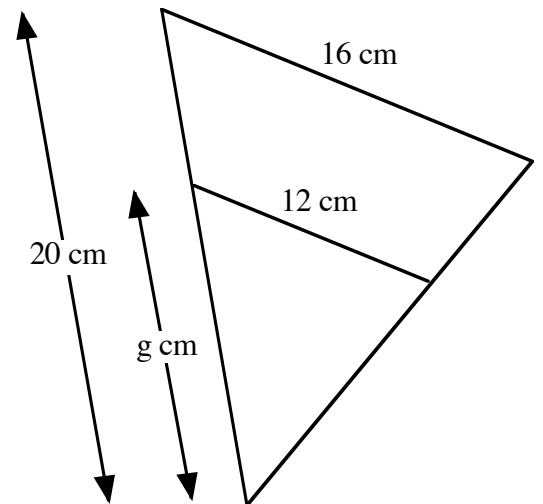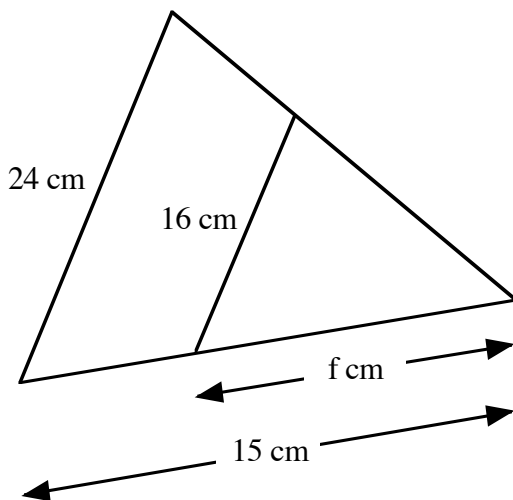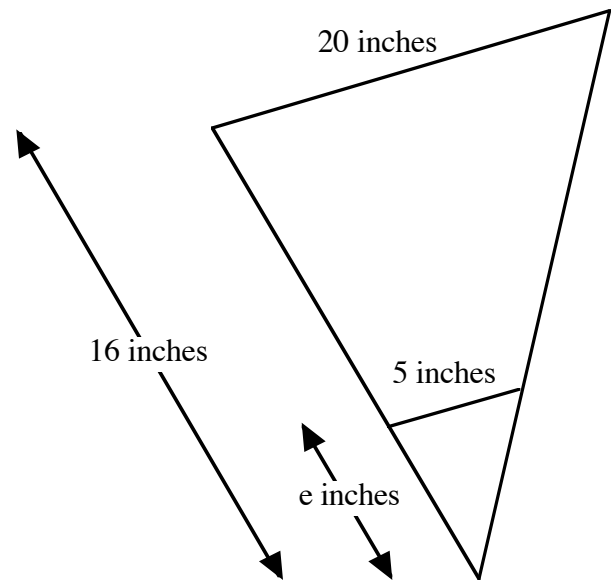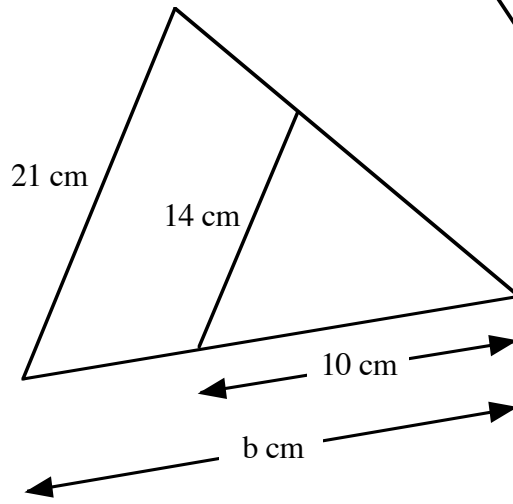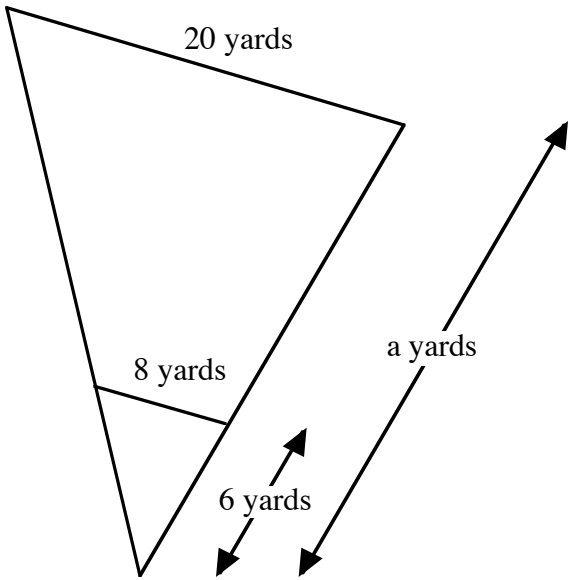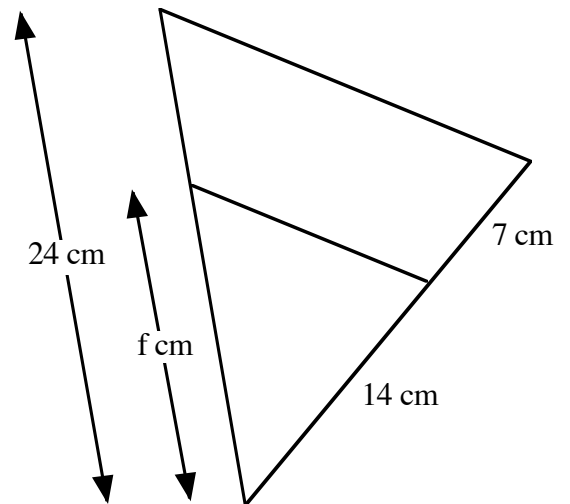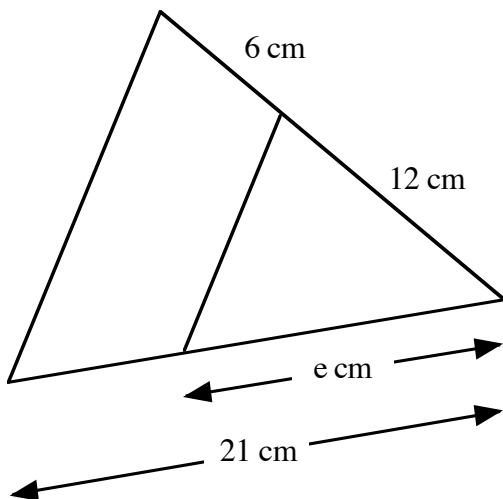
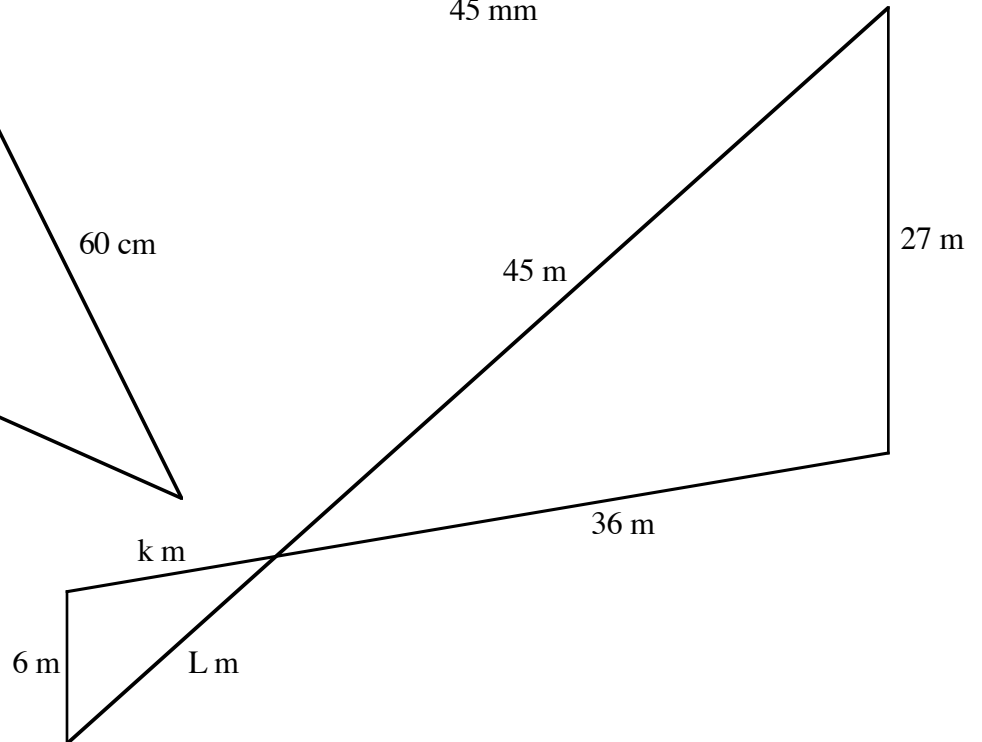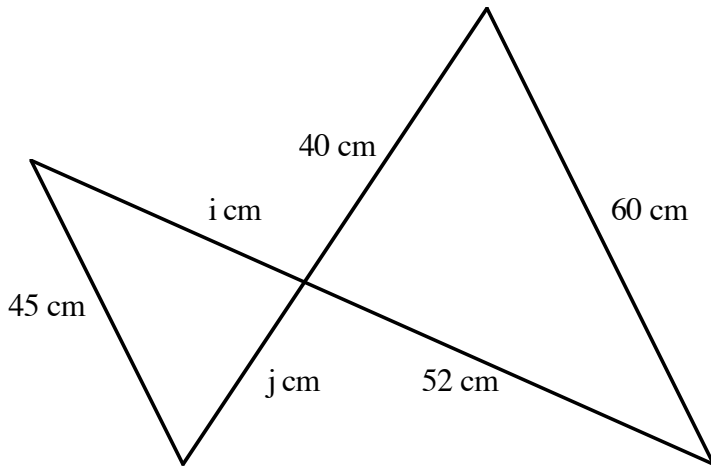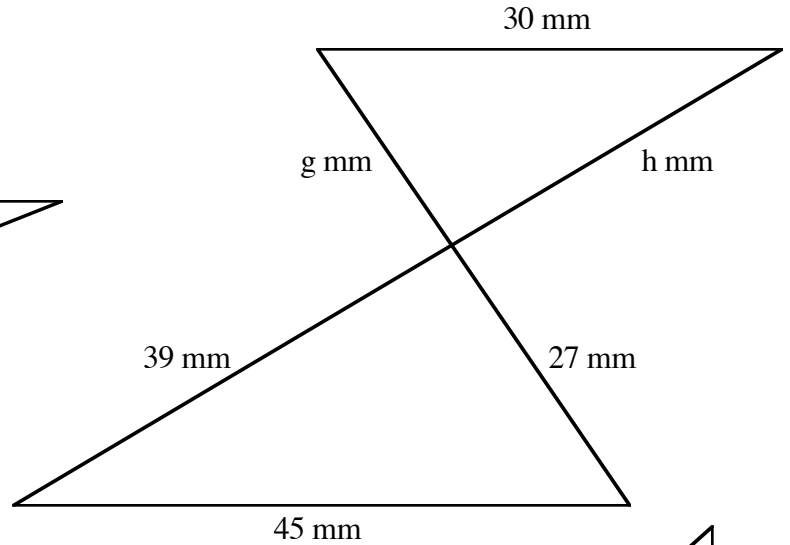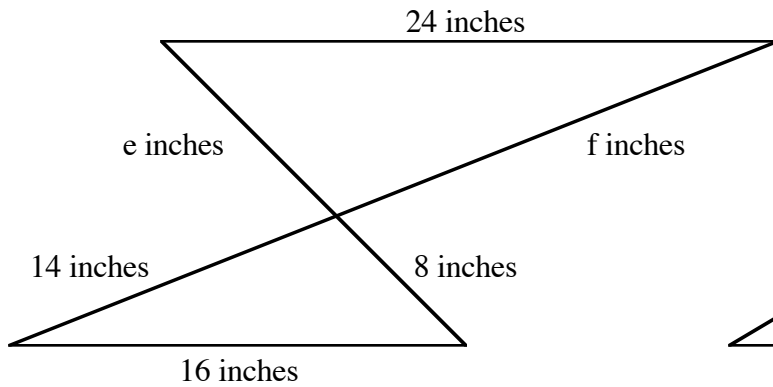4. In each of the following diagrams find the lengths of the unknown sides.

12 cm

6 cm

a cm

8 cm

b cm

30 cm

25 feet

c feet

12 feet

15 feet

d feet

9 feet

30 mm

g mm

h mm

39 mm

27 mm

45 mm

24 inches

e inches

f inches

14 inches

8 inches

16 inches

40 cm

i cm

60 cm

27 m

45 m

45 cm

j cm

52 cm

36 m

k m

6 m

L m
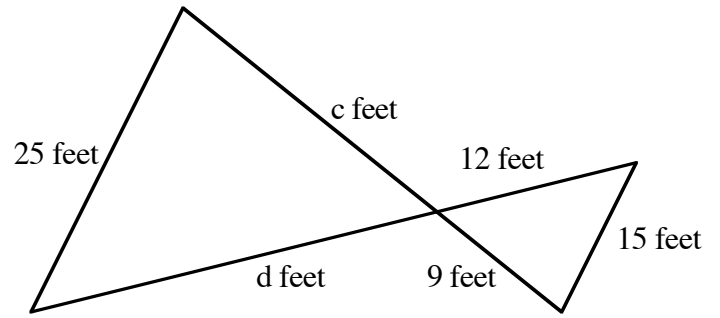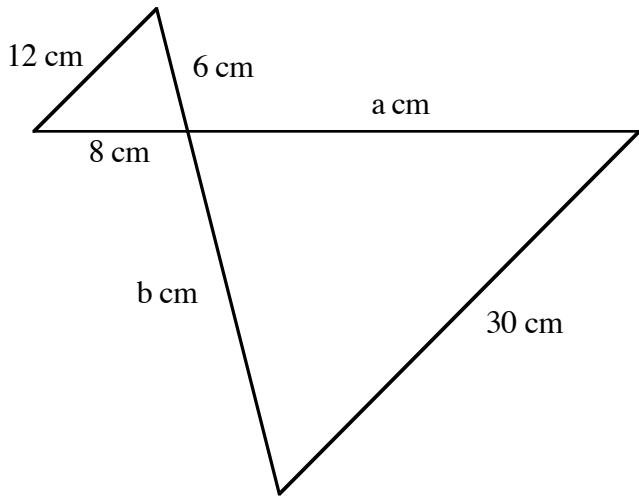
Answers

1. a = 9   b = 16   c = 12   d = 4   e = 4   f = 10   g = 12   h = 20   i = 15
2. a = 15   b = 15   c = 18   d = 14   e = 4   f = 10   g = 15
3. a = 14   b = 15   c = 20   d = 5   e = 14   f = 16
4. a = 20   b = 15   c = 15   d = 20   e = 12   f = 21   g = 18   h = 26   i = 39
   j = 30   k = 8   l = 10