**1.** Calculate ∠D. Round each angle measure to the nearest degree.

**a)**

E

A

4 cm

2 cm

D

E

**b)**

8 m

D

N

9 m

**2.** Calculate ∠Y, to the nearest degree.

3 cm

Z

**a)**

X

Y

6 cm

Y

**b)**

15 cm

Z

X

11 cm

**3.** Calculate ∠H, to the nearest degree.

**a)**

5 cm

4 cm

H

5 m

**b)**

H

**4.** Find the measure of the indicated angle in each triangle. Round each angle measure to the nearest degree.

13 m

A

**a)** ∠C

5 cm

13 cm

B

C

**b)** ∠D

D

15 m

F

E

12 m

**c)** ∠H

J

K

48 m

65 m

H

N

**d)** ∠M

72.5 m

P

M

67.6 m

Answers:

1a. 63º b. 42 º

2a. 30º b. 47º

3a. 37º b. 67º

4a. 23º b. 53º c. 42º d. 47º

**1.** Calculate *x*, to the nearest tenth of a metre.

**a)** **b)**

*x*

*x*

28°

12 m

43°

3 m

*x*

**c)** **d)**

60°

50°

17 m

6 m

*x*

**2.** Calculate *y*, to the nearest hundredth of a metre.

**a)**

54°

28 m

*y*

**b)**

30°

*y*

15 m

**c)**

*y*

59 m

60°

96 m

72°

**d)**

*y*

**e)**

*y*

45°

17 m

**f)**

25°

10 m

*y*

1a. 2.8m b. 6.4m c. 7.2m d. 9.8m 2a. 22.7m b. 7.5m c. 51.1m d. 29.7m e. 12.0m f. 9.1m

3a. 25.4cm b. 31.2cm c. 34.1cm d. 28.9cm 4a. 4.3m b. 9.4cm c. 3.1m d. 42.7mm e. 30.0cm f. 29.6km

**3.** Calculate *w*, to the nearest tenth of a centimetre.

**a)** **b)**

*w*

*w*

30°

27 cm

48°

17 cm

*w*

**c)** **d)**

32 cm

60°

25 cm

*w*

70°

**4.** Find the measure of the indicated side in each triangle.

A

**a)** AC

46°

C

B

3 m

**b)** FD

28°

F

D

5 cm

E

**c)** HJ

H

4 m

J

50°

G

M

**d)** LM

22°

46 mm

K

R

L

48 cm

**e)** RQ

58°

Q

P

R

17 km

**f)** TS

55°

S

T