

Year 4 Homework Answer

Module 4: Parallelograms and trapeziums

1.

Parallel	Parallel	Neither
Perpendicular	Perpendicular	Perpendicular

2.

N/A

3.

1) D

2) D

3) D

4) A

4.

1) T

2) T

3) T

4) T

5) F

6) F

7) T

8) T

9) F

5.

N/A

6.

a) 48 cm

b) 110°

7.

a) $ML = NP, LP = MN$

b) $\angle LMN = 60 + 62 = 122^\circ, \angle NPL = 122^\circ$

8.

51°	76°
154°	82°

9.

a) D (0,3)

b) G (4,2) or G (6,4)

10.

$$\Delta = 10$$

$$3 \times 10 = 30$$

$$(24.5 + 30) \times 2 = 109$$

11.

a) $3\Delta = 114; \Delta = 38$

b) $11\Delta = 110; \Delta = 10$

c) $2\Delta = 40; \Delta = 20$

12.

$$P = 8 + 8 + 16 + 16 = 16 + 32 = 48 \text{ cm}$$

13.

Option 1: One side is 26 cm, another side is 13 cm.

$$P = 26 \times 2 + 13 \times 2 = 52 + 26 = 78 \text{ cm}$$

Option 2: One side is 26 cm, another side is 52 cm

$$P = 26 \times 2 + 52 \times 2 = 52 + 104 = 156 \text{ cm}$$

14.

PQ and SR are the bases of trapezium,

PS and QR are the legs of trapezium.

15.

a) AB and DC

b) AD and BC

16.

a) AB and DE are parallel

b) CD and DE are perpendicular

17.

a) $\angle D = 112$

b) $\angle A = 90$

c) $\angle B = 108$

d) $\angle C = 66$

18.

a) $RS \perp UT$ or $RQ \perp QU \perp QT$

b) Yes