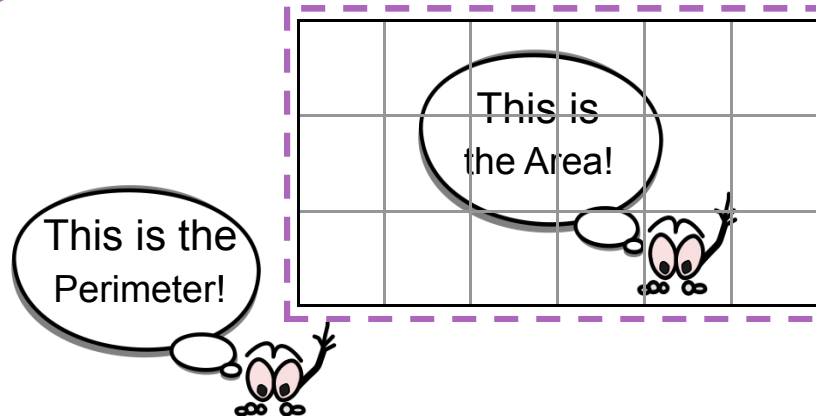


Answers - Perimeter and Area Book 2

CALCULATE CAREFULLY!



## Answers to Area and Perimeter Book 2

<p><b>Page 5</b></p> <p>Q1: a) i. Perimeter 16 cm    ii. Area 15 cm<sup>2</sup>            b) i. Perimeter 20 cm    ii. Area 21 cm<sup>2</sup>            c) i. A 20 cm<sup>2</sup>    ii. Perimeter 24 cm</p>	<p><b>Page 5</b></p> <p>Q2: a) i. Perimeter 14 cm    ii. Area 10 cm<sup>2</sup>            b) i. Perimeter 14 cm    ii. Area 10 cm<sup>2</sup>            c) i. Perimeter 16 cm    ii. Area 9 cm<sup>2</sup></p>
<p><b>Page 6</b></p> <p>Q1: a) A 20 cm<sup>2</sup>    B 12 cm<sup>2</sup>    C 10 cm<sup>2</sup>                  D 6 cm<sup>2</sup>    E 22 cm<sup>2</sup></p> <p>b) A 18 cm    B 14 cm    C 14 cm                  D 10 cm    E 26 cm</p> <p>c) Rectangles B and C have the same perimeter.            d) Rectangles B have twice the area of D.            e) Rectangle C have half the area of A.</p> <p>Q2: a) A 21 cm<sup>2</sup>    B. 9 cm<sup>2</sup>    C 15 cm<sup>2</sup>    D 13 cm<sup>2</sup>            b) A 20 cm    B. 20 cm    C 20 cm    D 20 cm            c) i. Least area B    ii. Least perimeter none.</p>	<p><b>Page 7</b></p> <p>Q1: a) Area: A 24 cm<sup>2</sup>    B 12 cm<sup>2</sup>                  C 12 cm<sup>2</sup>    D 14 cm<sup>2</sup>    E 16 cm<sup>2</sup></p> <p>b) Perimeter: A 20 cm    B 14 cm                  C 16 cm    D 18 cm    E 20 cm</p> <p>c) Rectangles B and C have the same area.            d) Rectangles B and C have half the area of A.</p> <p>Q2: a) A 12 cm<sup>2</sup>    B 10 cm<sup>2</sup>    C 34 cm<sup>2</sup>    D 11 cm<sup>2</sup>            b) A 16 cm    B 16 cm    C 34 cm    D 24cm            c) A and B have the same perimeter.            d) Difference in perimeter of C &amp; D is 10 cm.            e) Difference in perimeter of C &amp; D is 23 cm<sup>2</sup>.</p>
<p><b>Page 8</b></p> <p>Q1: a) 14 cm    b) 16 cm</p> <p>Q2: a) Length = 4 cm    b) Width = 3 cm            c) Perimeter = 14 cm</p>	<p><b>Page 9</b></p> <p>Q1: a) 12 cm<sup>2</sup>    b) 18 cm<sup>2</sup></p> <p>Q2: a) Length = 5 cm    b) Width = 3 cm            c) Area = 15 cm<sup>2</sup></p>
<p><b>Page 10</b></p> <p>Q1: L = 8 cm,    W = 3 cm            a) Perimeter = 22 cm    b) Area = 24 cm<sup>2</sup></p> <p>Q2: L = 8 cm,    W = 4 cm            a) Perimeter = 24 cm    b) Area = 32 cm<sup>2</sup></p>	<p><b>Page 11</b></p> <p>Q1: L = 8 cm,    W = 2 cm            a) Perimeter = 20 cm    b) Area = 16 cm<sup>2</sup></p> <p>Q2: L = 10 cm,    W = 3 cm            a) Perimeter = 26 cm    b) Area = 30 cm<sup>2</sup></p>

## Answers to Area and Perimeter Book 2

<p><b>Page 12</b></p> <p>Q1: a) L = 12 cm    W = 3 cm                  Perimeter = 30 cm    Area = 36 cm<sup>2</sup></p> <p>      b) L = 6 cm    W = 4 cm                  Perimeter = 20 cm    Area = 24 cm<sup>2</sup></p> <p>      c) L = 4 cm    W = 4 cm                  Perimeter = 16 cm    Area = 16 cm<sup>2</sup></p>	<p><b>Page 13</b></p> <p>Q1: a) L = 7 cm    W = 5 cm                  Area = 35 cm<sup>2</sup>    Perimeter = 24 cm</p> <p>      b) L = 11 cm    W = 4 cm                  P = 30 cm    Area = 44 cm<sup>2</sup></p> <p>      c) L = 1 cm    W = 1 cm                  Area = 1 cm<sup>2</sup>    Perimeter = 4 cm<sup>2</sup></p>
<p><b>Page 14</b></p> <p>Q1: A. L = 5 cm,    W = 3 cm              B. L = 8 cm,    W = 3 cm              C. L = 6 cm,    W = 2 cm              D. L = 6 cm,    W = 6 cm              E. L = 6 cm,    W = 3 cm</p> <p>Q3: A. Area = 15 cm<sup>2</sup>,    Perimeter = 16 cm              B. Area = 24 cm<sup>2</sup>,    Perimeter = 22 cm              C. Area = 12 cm<sup>2</sup>,    Perimeter = 16 cm              D. Area = 36 cm<sup>2</sup>,    Perimeter = 24 cm              E. Area = 18 cm<sup>2</sup>,    Perimeter = 18 cm</p>	<p><b>Page 15</b></p> <p>Q1: A. L = 6 cm,    W = 3 cm              B. L = 9 cm,    W = 2 cm              C. L = 5 cm,    W = 4 cm              D. L = 3 cm,    W = 2 cm              E. L = 4 cm,    W = 4 cm              F. L = 2 cm,    W = 2 cm</p> <p>Q3: A. Area = 18 cm<sup>2</sup>,    Perimeter = 18 cm              B. Area = 18 cm<sup>2</sup>,    Perimeter = 22 cm              C. Area = 20 cm<sup>2</sup>,    Perimeter = 18 cm              D. Area = 6 cm<sup>2</sup>,    Perimeter = 10 cm              E. Area = 16 cm<sup>2</sup>,    Perimeter = 16 cm              F. Area = 4 cm<sup>2</sup>,    Perimeter = 8 cm</p> <p>      i. 14 cm<sup>2</sup>    ii. 12 cm<sup>2</sup>    iii. A and B              iv. No    v. A and E.</p>
<p><b>Page 16</b></p> <p>Q1: a) L = 10 cm,    W = 3 cm                  Double L = 20 cm,    W = 6 cm                  Perimeter = 52 cm,    Area = 120 cm<sup>2</sup></p> <p>      b) L = 11 cm,    W = 4 cm                  Double L = 22 cm,    W = 8 cm                  Perimeter = 60 cm,    Area = 176 cm<sup>2</sup></p>	<p><b>Page 17</b></p> <p>Q1: a) L = 10 cm,    W = 3 cm                  Triple L = 30 cm,    W = 9 cm                  Perimeter = 78 cm    Area = 270 cm<sup>2</sup></p> <p>      b) L = 11 cm,    W = 4 cm                  Triple L = 33 cm    W = 12 cm                  Perimeter = 90 cm    Area = 396 cm<sup>2</sup></p>
<p><b>Page 18</b></p> <p>Q1: a) L = 12 cm,    W = 2.5 cm                  P = 29 cm,    Area = 30 cm<sup>2</sup></p> <p>      b) L = 6 cm,    W = 3.5 cm                  P = 19 cm,    Area = 21 cm<sup>2</sup></p> <p>      c) L = 4 cm,    W = 4 cm                  P = 16 cm,    Area = 16 cm<sup>2</sup></p>	<p><b>Page 19</b></p> <p>Q1: a) i. Perimeter = 32 cm,    ii. Area = 48 cm<sup>2</sup>              b) i. Area = 48 cm<sup>2</sup>,    ii. Perimeter = 28 cm              c) Area</p> <p>Q2: a) i. P = 34 cm,    ii. Area = 60 cm<sup>2</sup>              b) i. Area = 60 cm<sup>2</sup>,    ii. Perimeter = 38 cm              c) Area</p> <p>      d) i. Area = 4000 cm<sup>2</sup>              ii. P = 280 cm,    iii. 20 cm</p>

## Answers to Area and Perimeter Book 2

<p><b>Page 20</b></p> <p>Q1: a) Area = <math>6 \text{ cm}^2</math>    b) Area = <math>30 \text{ cm}^2</math>            c) Perimeter = 30 cm</p> <p>Q2: a) Area = <math>12 \text{ cm}^2</math>    b) Area = <math>60 \text{ cm}^2</math>            c) Perimeter = 42 cm</p> <p>Q3: a) Area = <math>75 \text{ cm}^2</math>    b) Area = <math>375 \text{ cm}^2</math>            c) Perimeter = 120 cm</p>	<p><b>Page 21</b></p> <p>Q1: a) Area = <math>9 \text{ cm}^2</math>    b) Area = <math>54 \text{ cm}^2</math>            c) Perimeter = 42 cm    d) Cube.</p> <p>Q2: a) i. Length = 2 cm    ii. Width = 1.5 cm            b) Area = <math>3 \text{ cm}^2</math>    c) Area = <math>18 \text{ cm}^2</math>            d) Perimeter = 24 cm    e) Cuboid</p>
<p><b>Page 22</b></p> <p>Q1: a) A ( 1, 4)    B ( 1, 1)    C (6, 1)    D ( 6, 4)            b) i. A = <math>15 \text{ units}^2</math>    ii. Perimeter = 16 units</p> <p>Q2: a) A (-2, 4)    B (-2, -1)    C (3, -1)    D ( 3, 4)            b) i. A = <math>25 \text{ units}^2</math>    ii. Perimeter = 20 units</p> <p>Q3: a) A (-1, 4)    B (-1, 1)    C (5, 1)    D ( 5, 4)            b) i. A = <math>18 \text{ units}^2</math>    ii. Perimeter = 18 units</p>	<p><b>Page 23</b></p> <p>Q1: a) A ( 5, 4)    C ( 0, -1)    B (0, 4)    D ( 5, -1)            d) Area = <math>25 \text{ units}^2</math>    e) Perimeter = 20 units</p> <p>Q2: a) A ( 3, -3)    B ( 3, 0)    C (-2, 0)    D (-2, -3)            d) Area = <math>15 \text{ units}^2</math>    e) Perimeter = 16 units</p> <p>Q3: a) A (-5, -4)    C ( 3, 2)    B (3, -4)    D (-5, 2)            b) Area = <math>48 \text{ units}^2</math>    e) Perimeter = 28 units</p>
<p><b>Page 24</b></p> <p>Q1: a) Length    i. 3 units    ii. 6 units    iii. 2            b) Width    i. 2 units    ii. 4 units    iii. 2            c) Area    i. <math>6 \text{ units}^2</math>    ii. <math>24 \text{ units}^2</math>    iii. 4</p> <p>Q2: a) Area    i. <math>4 \text{ units}^2</math>    ii. <math>8 \text{ units}^2</math>                              iii. <math>16 \text{ units}^2</math>    iv. <math>12 \text{ units}^2</math>            b) i. 2    ii. 4    iii. 3    iv. 4 or 5</p>	<p><b>Page 25</b></p> <p>Q1: a) Length    i. 4 units    ii. 8 units    iii. 2.            b) Width    i. 2 units    ii. 4 units    iii. 2.            c) Area    i. <math>8 \text{ units}^2</math>    ii. <math>32 \text{ units}^2</math>    iii. 4.</p> <p>Q2: a) Area    i. <math>4 \text{ units}^2</math>    ii. <math>16 \text{ units}^2</math>                              iii. <math>24 \text{ units}^2</math>    iv. <math>32 \text{ units}^2</math>            b) i. 4    ii. 4 or 6    iii. 6 or 8</p>
<p><b>Page 26</b></p> <p>Q1: a) Area of A = <math>12 \text{ cm}^2</math>    B = <math>12 \text{ cm}^2</math>    C = <math>12 \text{ cm}^2</math>            b) Perimeter of A = 16 cm; B = 14 cm, C = 26 cm            c) Area of C = <math>18 \text{ cm}^2</math>, D = <math>18 \text{ cm}^2</math>            d) Perimeter of C = 22 cm; D = 18 cm</p>	<p><b>Page 27</b></p> <p>Q1: Possible perimeters for rectangles with:            area <math>16 \text{ cm}^2</math> = 16 cm, 20 cm, 34 cm.            area <math>24 \text{ cm}^2</math> = 20 cm, 22 cm, 28 cm, 50 cm.</p>
<p><b>Page 28</b></p> <p>Q1: a) Area of A = <math>6 \text{ units}^2</math>            b) Area of B = <math>8 \text{ units}^2</math>            c) i. 3 &amp; 6    ii. 4, 2 &amp; 3    iii. 3 &amp; 2            d) Perimeter = (i) 18    (ii) 18    (iii) 16            e) Area = (i), (ii), (iii) All <math>14 \text{ units}^2</math>            f) Area remains the same.            g. Perimeter changes.</p>	<p><b>Page 29</b></p> <p>Q1: a) Area of A = <math>10 \text{ units}^2</math>            b) Area of B = <math>8 \text{ units}^2</math>            c) i. 5 &amp; 6    ii. 4, 2 &amp; 5    iii. 5 &amp; 2            d) Perimeter = (i) 22    (ii) 22    (iii) 18            e) Area = (i), (ii), (iii). All <math>18 \text{ units}^2</math>            f) Area remains the same.            g. Perimeter changes.</p>

## Answers to Area and Perimeter Book 2

### Page 30

- Q1: The answers to a, b, c and d will depend on how the L shape is split.  
 e) Area of the L shape = 24 units<sup>2</sup>.  
 f) 6 sides. g) 3, 4, 3, 2, 6, 6. h) 24 units<sup>2</sup>
- Q2: The answers to a), b), c) and d) will depend on how the L shape is split.  
 e) Area of the L shape = 31 units<sup>2</sup>.  
 f) 6 sides. g) 2, 5, 5, 3, 7, 8. h) 30 units<sup>2</sup>

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- Q1: The answers to a), b), c) and d) will depend on how the L shape is split.  
 e) Area of the L shape = 27 units<sup>2</sup>.  
 f) 6 sides. g) 3, 5, 3, 2, 6, 7. h) 26 units<sup>2</sup>
- Q2: The answers to a), b), c) and d) will depend on how the L shape is split.  
 e) Area of the L shape = 41 units<sup>2</sup>.  
 f) 6 sides. g) 4, 5, 3, 3, 7, 8. h) 30 units<sup>2</sup>

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- Q1: a. The L shape has 6 sides.  
 b. 8 cm, 2 cm, 5 cm, 3 cm, 3 cm, 5 cm  
 Perimeter of shape A and B = 26 cm  
 Area of Shape A and B = 25 cm<sup>2</sup>

### Page 33

- Q1: Perimeter of shapes A, B, C, D, E and F is 20 cm  
 Area of shape A = 20 cm<sup>2</sup>, B = 22 cm<sup>2</sup>, C = 20 cm<sup>2</sup>  
 D = 15 cm<sup>2</sup>, E = 16 cm<sup>2</sup>, F = 28 cm<sup>2</sup>

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Q2:	Square	Length	Area	Perimeter
	A	1	1	4
	B	2	2	4
	C	3	9	12
	D	4	16	16
	E	5	25	20
	F	6	36	24
	G	7	49	28
	H	8	64	32
Q3: Area and perimeter of:				
	A	9	81	36
	B	10	100	40
	C	11	121	44
	D	12	144	48

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- Q3: Area of A = 9 units<sup>2</sup> + Area of B = 16 units<sup>2</sup>  
 = Area of C = 25 units<sup>2</sup>.