

**Mendaki P6 Maths Foundation Paper  
Preliminary Examination 2019  
Answer Key**

**Paper 1**

**Multiple-Choice Questions** ( 30 marks )

Q1 to Q10 carry 1 mark each. Q11 to Q20 carry 2 marks each.

1 mark each		2 marks each	
1.	4	11.	3
2.	2	12.	3
3.	3	13.	4
4.	4	14.	4
5.	2	15.	1
6.	4	16.	2
7.	3	17.	1
8.	2	18.	3
9.	2	19.	2
10.	2	20.	2

**Short-answer Questions** (20 marks)

Note :

Remarks	Award
Correct answer and correct method/no method shown	2 marks
Correct answer and wrong method	0 mark
Wrong answer (check for evidence if applicable – refer to answer table)	
➤ correct working	1 mark
➤ no working	0 mark
➤ wrong working	0 mark
Partially correct answer	Check remarks

No	Answer	Evidence Of Working	Remarks
21.	8701		
22.	5	$(34-12-12)/2$	
23.	1.3	$6.25/5=1.25$	
24.	31	$30 \div 3 + 7 \times (4 - 1)$ $= 10 + 7 \times 3$ $= 10 + 21 = 31$	
25.	a) False b) True	a) $800 \times 2=1600m$ b) $200 + 400 + 800 = 1400m$	
26.	10	8.45 a.m. -----→9.45 a.m. 1h  $0945-0935=10$ mins slower	
27.	a) 12 b) 1/12	a) $48/4$ b) $19 + 12 + 13 = 44$ $48 - 44 = 4$ $4/48 = 1/12$	
28.	April	$4 + 12 + 8 + 18 = 42$ $3/7 \times 42 = 18$ (April)	
29.	a) 3500 b) 2.865	$3.5 \text{ km} \times 1000 = 3500 \text{ m}$ $3.5 \text{ km} - 635/1000 \text{ km} = 2.865 \text{ km}$	
30.	\$11	$12 \times 5 =60$ $60-16=44$ $44/4=11$	

## Paper 2

### Short-answer Questions (20 marks)

Note :

Remarks	Award
Correct answer – Q1 to Q10	2 marks
Correct answer but wrong method	0 mark
Wrong answer (check for evidence if applicable – refer to answer table) <ul style="list-style-type: none"> <li>➤ correct working</li> <li>➤ no working</li> <li>➤ wrong working</li> </ul>	1 mark 0 mark 0 mark
Partially correct answer	Check remarks

No	Answer	Evidence Of Working	Remarks
1.	316	$17 \times 12 = 204$ $204 + 112 = 316$	
2.	18	multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 multiples of 9: 9, 18, 27, 36, 45, 54, 63, 72, 81, 90 Common multiples: 9, 18, 27 ...	
3.	14 cm <sup>3</sup>		
4.	\$15	1 unit = 30 2 units = 60 $60 / 4 = 15$	
5.	\$690	$1 - 0.25 = 0.75$ $0.75 \times 920 = \$690$ Or 100%----- \$700 75%----- $75/100 \times 700$ = \$690	
6.	4.75 kg	$48 - 43.25 = 4.75$	
7.	20	$\frac{2}{3} \times 30$ or $30 \div 3 \times 2$	
8.	25	$20+31+20+30+24 = 125$ $125 \div 5 = 25$	
9.	8h 30min	9.00 a.m. – 12.30 p.m. (3h 30min) 2.00 p.m. – 5.30 p.m. (3h 30min) 7.00 p.m. – 8.30 p.m. (1h 30min) $3\text{h } 30\text{ min} + 3\text{h } 30\text{ min} + 1\text{h } 30\text{ min} = 8\text{h } 30\text{ min}$	
10.	75	$90 - 43 = 47$ $180 - 47 - 58 = 75$	

**Long-answer / Structured Questions** ( 20 marks )

Note: **Missing units ( units of measurement only – mass, volume, time, length, distance, speed) – deduct up to  $\frac{1}{2}$  mark per question**

**Transference error – deduct up to max 1 mark per question**

11.  $14.25 - 9.75 = 4.5$  (M1)  
 $4.5 / 5 = 0.9$  (M1)

The mass of each can is **0.9 kg**. ----- A1

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12.  $18 / 3 = 6$  (M1)  
 $7 \times 6 = 42$  (M1)  
The perimeter is **42 cm**. ----- A1

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13.  $10 + 12 + 13 + 5 = 40$   
 $12 + 13 = 25$  ( M1)  
—  
 $\frac{25}{40} \times 100 = 62.5$  (M1)  
The percentage is **62.5%** (A1)

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14.  $25 \times 18 \times 7 = 3150$  (M1)  
 $3150 / (35 \times 20) = 4.5$  (M1)  
The height is **4.5 cm** (A1)

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15. (a)  $(40 \times 8) + 30 = \mathbf{\$350}$  (A1)

(b) Food –  $\frac{3}{5} \times 350 = 210$  (M1)  
Remaining –  $350 - 210 = 140$   
Drinks –  $\frac{2}{7} \times 140 = 40$  (M1)

$350 - 210 - 40 - 15 = 85$  (A1)  
\$85 was spent on prizes.

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16. (a)  $(9 + 4) \times 2 = 26$  (M1A1)  
(b)  $(78 / 2) - 4 = 35$   
 $35 + 1 = \mathbf{36}$  (M1A1)

OR

Pattern	Number of white dots	Number of black dots
1	2	10
2	3	12
3	4	14
4	5	16
5	6	18
6	7	20
7	8	22
8	9	24
9	10	26

(b)  $78 - 10 = 68$   
 $68 / 2 = 34$  (M1)

$34 + 1 = 35$   
 $35 + 1 = 36$  (A1)