

## 2021 PSLE FOUNDATION MATHS (ANSWER KEY)

### Paper 1 Booklet A (Total: 30 marks)

#### Q1 to 10 : 1 mark each

Q1.	<b>3</b>	Q2.	<b>4</b>	Q3.	<b>4</b>	Q4.	<b>3</b>	Q5.	<b>1</b>
Q6.	<b>3</b>	Q7.	<b>3</b>	Q8.	<b>3</b>	Q9.	<b>2</b>	Q10.	<b>3</b>

#### Q11 to 20 : 2 marks each

Q11.	<b>3</b>	Q12.	<b>1</b>	Q13.	<b>4</b>	Q14.	<b>4</b>	Q15.	<b>1</b>
Q16.	<b>4</b>	Q17.	<b>4</b>	Q18.	<b>2</b>	Q19.	<b>2</b>	Q20.	<b>3</b>

### Paper 1 Booklet B (Total: 20 marks)

#### Q21 to 30 : 2 marks each

Q21.	a) <b>6</b> b) $3\frac{3}{5}$	<b>A1</b> <b>A1</b>
Q22.	a) <b>7080</b> b) <b>10</b>	<b>A1</b> <b>A1</b>
Q23.	<b>10 398</b>	<b>A2</b>
Q24.	$2500 \div 1000 = 2.5$ $2.5 = \mathbf{100} \times 0.025$	<b>M1</b> <b>A1</b>
Q25.	$\$225 - \$85 = \$140$ $\$140 \div \$2 = \mathbf{\$70}$	<b>M1</b> <b>A1</b>
Q26.	$3\% \text{ of } \$900 = \$27$ $27 + 900 = \mathbf{927}$	<b>M1</b> <b>A1</b>
Q27.	$\frac{12}{3} \times 6 = \mathbf{24}$	<b>M1A1</b>
Q28.	$60\% \times 240 = \mathbf{144}$	<b>M1A1</b>
Q29.	$16 \text{ h } 25 \text{ mins} - 55 \text{ mins} = 15 \text{ h } 30 \text{ mins}$ <b>3.30 p.m.</b>	<b>M1</b> <b>A1</b>
Q30.	(a) <b>Yes</b> (b) <b>No</b>	<b>A1</b> <b>A1</b>

**Paper 2 (Total: 40 marks)**

**Q1 to 10 : 2 marks each**

Q1.	$15 + 15 = 30$ $50 - 30 = 20$ $20 \div 2 = \mathbf{10}$	<b>M1</b>  <b>A1</b>
Q2.	$\frac{1}{3} + \frac{1}{9} = \frac{4}{9}$  $\frac{1}{3} + \frac{4}{9} = \frac{7}{9}$	<b>M1</b>  <b>A1</b>
Q3.	$56 \div 4 = 14$ $7 \times 14 = \mathbf{98}$	<b>M1</b> <b>A1</b>
Q4.	$2.08 \text{ km} = 2080 \text{ m}$ $2080 \text{ m} - 900 \text{ m} = \mathbf{1180}$	<b>M1A1</b>
Q5	$\$150 \times 107\% = \mathbf{\$160.50}$	<b>M1A1</b>
Q6	$20 \times 4 = \mathbf{80}$ <b>Or</b> $20 - 16 = 4$ $20 \times 2 + 16 \times 2 + 4 \times 2 = \mathbf{80}$	<b>M1 A1</b>  <b>M1 A1</b>
Q7.	$\frac{15}{100} \times 50 = 7.50$  $50 - 7.50$ $= \mathbf{42.50}$  <b>Or</b> $\frac{85}{100} \times \$50$  $= \mathbf{42.50}$	<b>M1</b>  <b>A1</b>   <b>M1</b>  <b>A1</b>
Q8.	$\angle CED = (180^\circ - 80^\circ) \div 2$ $= 50^\circ$ $\angle y = 360^\circ - 50^\circ$ $= 310^\circ$	<b>M1</b> <b>A1</b>
Q9.	$56 \text{ kg} \times 3 = 168 \text{ kg}$ $168 \text{ kg} - 106 \text{ kg} = \mathbf{62 \text{ kg}}$	<b>M1</b> <b>A1</b>
Q10.	$1u = \$10$ $2u = \$10 \times 2$ $= \mathbf{\$20}$	<b>M1</b>  <b>A1</b>

	<p><b>Award only A1 if there is no evidence of any working done and the answer is correct for 3 marks and above questions.</b></p> <p><b>Award zero mark if the method is wrong, even though the answer is correct.</b></p> <p><b>Deduct ½ mark for missing or incorrect unit.</b></p> <p><b>Deduct ½ mark for missing statement only if the solution is entirely correct for 4-mark and 5-mark questions.</b></p> <p><b>Do not deduct again if ½ mark is already deducted for missing or wrong units.</b></p>	
Q11	<p><b>Method 1</b></p> $140 + 35 = 175$ $\frac{175}{700} \times 100\% = 25\%$ $100\% - 25\% = \mathbf{75\%}$ <p><b>Method 2</b></p> $140 + 35 = 175$ $700 - 175 = 525$ $\frac{525}{700} \times 100\% = \mathbf{75\%}$	<p><b>M1</b></p> <p><b>M1A1</b></p> <p><b>M1</b></p> <p><b>M1A1</b></p>
Q12.	$5P + 4E = \$19$ $10P + 8E = \$19 \times 2$ $= \$38$ $10P + 12E = \$44$ $4E = \$44 - \$38$ $= \$6$	<p><b>M1</b></p> <p><b>M1</b></p> <p><b>A1</b></p>
Q13	<p>a) <math>8.56 \text{ m} - 2.42 \text{ m} = \mathbf{6.14 \text{ m}}</math></p> <p>b) <math>6.15 \text{ m} \div 4 = 1.5375\text{m} \sim \mathbf{1.5 \text{ m}}</math></p>	<p><b>A1</b></p> <p><b>M1A1</b></p>
Q14	<p>(a) <math>\frac{150}{500} = \frac{3}{10}</math></p> <p>(b) <math>\\$500 - \\$150 = \\$350</math></p> $\frac{2}{5} \times \$350 = \mathbf{\$140}$	<p><b>A1</b></p> <p><b>M1</b></p> <p><b>A1</b></p>
Q15	<p>(a) <math>82 \times 4 = \mathbf{328}</math></p> <p>(b) <math>82 + 10 + 82 + 66 = 240</math></p> $328 - 240 = \mathbf{88}$	<p><b>M1A1</b></p> <p><b>M1A1</b></p>

Q16	<p>a) <math>15 \times 25 = 375 \text{ min}</math>  <math>375 \text{ min} = 60 \text{ min} + 60 \text{ min} + 60 \text{ min} + 60 \text{ min} + 60 \text{ min} + 60 \text{ min} + 15 \text{ min} = \mathbf{6 \text{ h } 15 \text{ min}}</math></p> <p>b) Correct timeline  13 00 to 19 00 → 6 h  12 45 to 13 00 → 15 min  <b>12 45</b></p>	<p><b>M1</b></p> <p><b>A1</b></p> <p><b>M1</b></p> <p><b>A1</b></p>
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