

**MOCK EXAMINATION 5**

**Section A**

**1 (3)**  
 In 2957:  
 2 → 2000  
 9 → 900  
 5 → 50  
 7 → 7  
 The value of digit 9 is **900**.

**2 (4)**  
 6347 → 6000 (thousands place)  
 4672 → 600 (hundreds place)  
 9476 → 6 (ones place)  
**2763** → 60 (tens place)

**3 (3)**  
 Sum of 4095 and 3904  
 $4095 + 3904 = \mathbf{7999}$

**4 (4)**  
 145 tens less than \_\_\_\_\_ is 29 hundreds.  
 145 tens = 1450  
 29 hundreds = 2900  
 $\text{_____} - 1450 = 2900$   
 $2900 + 1450 = \mathbf{4350}$

**5 (2)**  
 $784 = 4 \text{ groups of } \boxed{?}$   
 $784 \div 4 = \mathbf{196}$

**6 (2)**  
 $\frac{6 \div 2}{26 \div 2} = \frac{\mathbf{3}}{\mathbf{13}}$

**7 (1)**  
 $\$1.00 = 100 \text{ cents}$   
 (100 cents is equal to 100 1¢ coins.)  
 Therefore,  $\$1.00 = \mathbf{20 \text{ } 5\text{¢} \text{ coins}}$

**8 (2)**  
 25, 50, 150, \_\_\_\_\_, 3000  
  
 $150 \times 4 = \mathbf{600}$

**9 (1)**  
 $AB \perp AH$     $HG \perp AH$     $DC \perp AH$     $FE \perp AH$   
 $AB \perp BC$     $HG \perp BC$     $DC \perp BC$     $FE \perp BC$   
 $AB \perp DE$     $HG \perp DE$     $DC \perp DE$     $FE \perp DE$   
 $AB \perp GF$     $HG \perp GF$     $DC \perp GF$     $FE \perp GF$   
 Number of pairs of perpendicular lines → **16**

**10 (1)**  
  
 $33 - 3 = 30$   
 $30 \div 6 = 5$

**11 (2)**  
  
 Total number of parts → 8  
 Number of unshaded parts → 5  
 Fraction of unshaded parts →  $\frac{\mathbf{5}}{\mathbf{8}}$

**12 (3)**  
 Number of seashells Roland gave each of his friends → 8  
 Number of friends Roland had → 11  
 Number of seashells Roland gave all his friends →  $11 \times 8 = 88$   
 Number of seashells Roland left → 12  
 Total number of seashells Roland had at first →  $88 + 12 = \mathbf{100}$

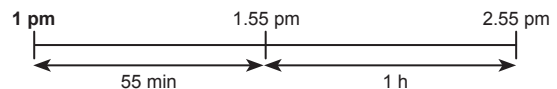
**13 (4)**  
 Number of sheets in a pack → 128  
 Number of packs → 8  
 Total number of sheets in 8 packs →  $128 \times 8 = \mathbf{1024}$

**14 (2)**  
 Cost of a camera → \$557.85  
 Cost of a computer → \$988.95  
 Total cost of the camera and computer →  $\$557.85 + \$988.95 = \$1546.80$   
 Amount of money Miss Liu gave the cashier →  $\$1000 \times 2 = \$2000$   
 Amount of change Miss Liu received from the cashier →  $\$2000.00 - \$1546.80 = \mathbf{\$453.20}$

**15 (2)**  
 Number of packets of lollipops → 6  
 Number of lollipops in each packet → 12  
 Total number of lollipops →  $12 \times 6 = 72$   
 Number of small bags → 8  
 Number of lollipops in each small bag →  $72 \div 8 = \mathbf{9}$

**16 (1)**  
 Number of pins Jordan gave Alice → 1957  
 Number of pins Alice gave Sammy → 964  
 Number of pins Alice left → 2860  
 (Note: We have to work backwards to get the initial number of pins Alice had.)  
 Number of pins before Alice gave Sammy →  $2860 + 964 = 3824$   
 Number of pins before Jordan gave Alice →  $3824 - 1957 = 1867$   
 Therefore, number of pins Alice had at first → **1867**

**17 (3)**  
 Time taken for Mandy to clean the windows → 85 minutes  
 Time taken for Mandy to clean the toilet → 30 minutes  
 Total time taken for Mandy to do the chores →  $85 \text{ min} + 30 \text{ min} = 115 \text{ min}$   
 $= 1 \text{ h } 55 \text{ min}$   
 Time Mandy completed the chores → 2.55 pm  
 Time Mandy started doing the chores



**18 (2)**  
 Total mass of a packet of flour and 2 packets of rice →  $1 \text{ kg } 220 \text{ g} = 1220 \text{ g}$   
 Mass of a packet of rice → 550 g  
 Mass of 2 packets of rice →  $550 \text{ g} + 550 \text{ g} = 1100 \text{ g}$   
 Mass of a packet of flour →  $1220 \text{ g} - 1100 \text{ g} = \mathbf{120 \text{ g}}$



34 Number of pages of storybook Clarice reads per day  $\rightarrow 5$   
 Total number of pages Clarice reads for 5 days  
 $\rightarrow 5 \times 5 = 25$   
 Total number of pages in a storybook  $\rightarrow 90$   
 Number of unread pages  $\rightarrow 90 - 25 = 65$

35 Bag A  $\rightarrow 1 \text{ kg } 6 \text{ g} = 1006 \text{ g}$   
 Bag B  $\rightarrow 1500 \text{ g}$   
 Bag C  $\rightarrow 3 \text{ kg } 90 \text{ g} = 3090 \text{ g}$   
 Bag D  $\rightarrow 2 \text{ kg } 100 \text{ g} = 2100 \text{ g}$   
 Bag A is the lightest.

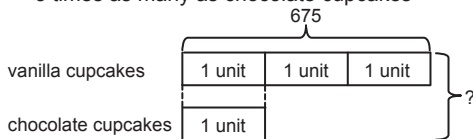
36 Bag A  $\rightarrow 1006 \text{ g}$   
 Bag C  $\rightarrow 3090 \text{ g}$   
 Total mass of bags A and C  $\rightarrow 1006 \text{ g} + 3090 \text{ g} = 4096 \text{ g}$

37 Mass of flour Mrs Chan used to bake 3 cakes  $\rightarrow 1950 \text{ g}$   
 Mass of flour Mrs Chan used to bake 1 cake  
 $\rightarrow 1950 \text{ g} \div 3 = 650 \text{ g}$   
 Mass of flour Mrs Chan used to bake 7 cakes  
 $\rightarrow 650 \text{ g} \times 7 = 4550 \text{ g}$

38 Number of stamps Farah had  $\rightarrow 290$   
 Number of stamps Farah gave her brother  $\rightarrow 32$   
 Number of stamps Farah left  $\rightarrow 290 - 32 = 258$   
 (Note: 'She shared the remaining stamps with Betty and Alice'. 'She' refers to Farah. It means the remaining stamps are shared among Farah, Betty and Alice.)  
 Number of stamps Betty received  $\rightarrow 258 \div 3 = 86$

39 Cost of a pencil  $\rightarrow \$0.80$   
 Cost of 3 pencils  $\rightarrow \$0.80 + \$0.80 + \$0.80 = \$2.40$   
 Cost of 4 erasers  $\rightarrow \$6.00 - \$2.40 = \$3.60$   
 Cost of 1 eraser  $\rightarrow \$3.60 \div 4 = \$0.90$

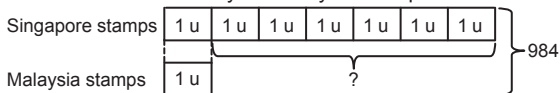
40 Number of vanilla cupcakes Carl sold  $\rightarrow 675$   
 $\rightarrow 3$  times as many as chocolate cupcakes



3 units  $\rightarrow 675$   
 1 unit  $\rightarrow 675 \div 3 = 225$   
 Number of chocolate cupcakes Carl sold  $\rightarrow 225$   
 Total number of cupcakes Carl sold  $\rightarrow 675 + 225 = 900$

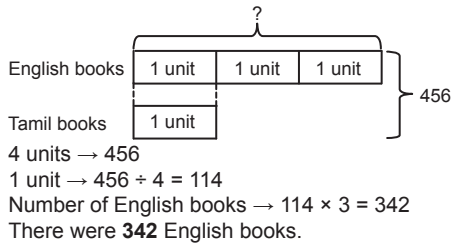
**Section C**

41 Number of stamps Felicia collected  $\rightarrow 984$   
 Number of Singapore stamps  
 $\rightarrow 7$  times as many as Malaysia stamps

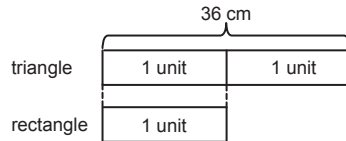


8 units  $\rightarrow 984$   
 1 unit  $\rightarrow 984 \div 8 = 123$   
 Number of Singapore stamps more than Malaysia stamps  
 $\rightarrow 123 \times 6 = 738$   
 She collected **738** more Singapore stamps than Malaysia stamps.

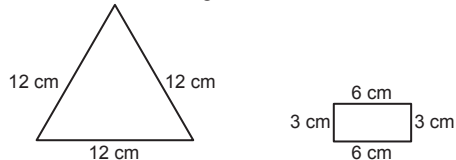
42 Number of books in the library  $\rightarrow 1000$   
 Number of Malay books in the library  $\rightarrow 259$   
 Number of Chinese books in the library  $\rightarrow 285$   
 Number of Malay and Chinese books  
 $\rightarrow 259 + 285 = 544$   
 Number of English and Tamil books  
 $\rightarrow 1000 - 544 = 456$   
 Number of English books  
 $\rightarrow$  three times as many as Tamil books



43 (a) Length of each side of triangle  $\rightarrow 12 \text{ cm}$   
 Length of 3 sides of triangle  $\rightarrow 12 \text{ cm} \times 3 = 36 \text{ cm}$   
 Length of wire used for the triangle  $\rightarrow 36 \text{ cm}$   
 $\rightarrow$  twice the length of wire used for the rectangle



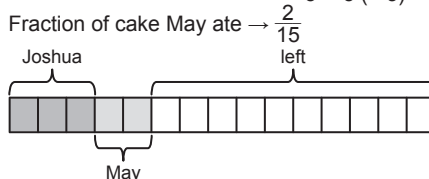
2 units  $\rightarrow 36 \text{ cm}$   
 1 unit  $\rightarrow 36 \text{ cm} \div 2 = 18 \text{ cm}$   
 Length of wire used for the rectangle  $\rightarrow 18 \text{ cm}$   
 Length of the rectangle  $\rightarrow 6 \text{ cm}$   
 Total length of the rectangle  $\rightarrow 6 \text{ cm} + 6 \text{ cm} = 12 \text{ cm}$   
 Total breadth of the rectangle  $\rightarrow 18 \text{ cm} - 12 \text{ cm} = 6 \text{ cm}$   
 Breadth of the rectangle  $\rightarrow 6 \text{ cm} \div 2 = 3 \text{ cm}$



The breadth of the rectangle is **3 cm**.

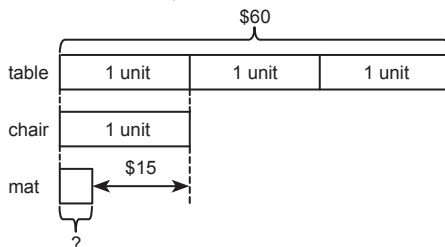
(b) Length of wire used for the triangle  $\rightarrow 36 \text{ cm}$   
 Length of wire used for the rectangle  $\rightarrow 18 \text{ cm}$   
 Total length of the 2 wires  $\rightarrow 36 \text{ cm} + 18 \text{ cm} = 54 \text{ cm}$   
 The total length of the 2 wires is **54 cm**.

44 Number of slices of cake Jack cut  $\rightarrow 15$   
 Fraction of cake Joshua ate  $\rightarrow \frac{1}{5} = \frac{1 \times 3}{5 \times 3} = \frac{3}{15}$



10 slices of the cake were left.

45 Cost of a table  $\rightarrow \$60$   $\rightarrow$  thrice (3 times) as much as a chair  
 Cost of a mat  $\rightarrow \$15$  less than a chair



3 units  $\rightarrow \$60$   
 1 unit  $\rightarrow \$60 \div 3 = \$20$   
 Cost of a chair  $\rightarrow \$20$   
 Cost of a mat  $\rightarrow \$20 - \$15 = \$5$   
 The cost of the mat is **\$5**.