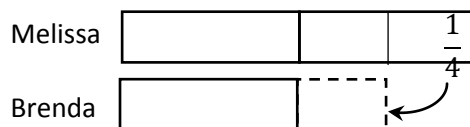


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Primary 3 Solutions

Section A:

1. Their ages are 13, 17 and 19. The greatest age difference is $19 - 13 = \underline{6}$ years.
2. The two products are multiples of 7, that is $5 \times 7 = 35$ and $6 \times 7 = 42$.
Product of 5 and 6 = $5 \times 6 = \underline{30}$
3. $\$(3 + 5 + 8) = \16
 $\$22 - \$16 = \$6 = \$3 + \$3$
Hence, he has sold 3 papayas, 1 watermelon and 1 jackfruit.
4. Rus took the most time, hence he was the last to complete.
5. Mass of 1 ball $\rightarrow 66 \div 3 = 22$ g
Mass of the block $\rightarrow 54 - 22 = \underline{32}$ g
6. Only (B) is not $\frac{2}{3}$ shaded
7. Since A is first and C is third, E is fourth, and D is ahead of B, then D must be second.
8. Since the sum of 5 consecutive even numbers is 320, then $320 \div 5 = 64$ is the middle number: *, *, 64, *, *. Therefore the five numbers are 60, 62, 64, 66, 68. The smallest of the five numbers is 60.
9. Melissa should give $\frac{1}{4}$ of her cards.

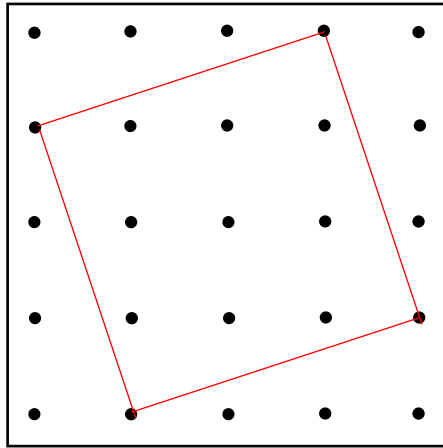


10. Length = $8 + 4 = 12$ m
Breadth = 4 m
Perimeter = $(12 + 4) \times 2 = \underline{32}$ m

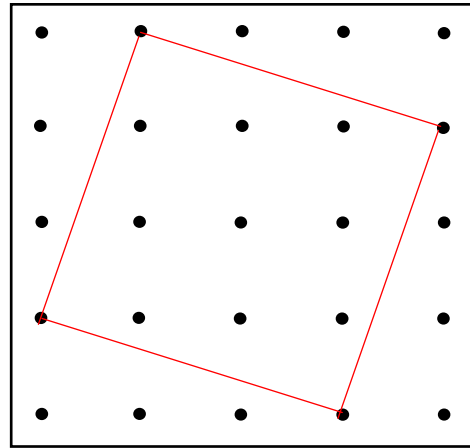
Section B:

11. $A \rightarrow 13 - 8 = \underline{5}$
 $(B - 1) - 0 = 9 \rightarrow B = \underline{0}$
 $(C - 1) - 6 = 6 \rightarrow C = \underline{3}$
 $D = (6 - 1) - 4 = \underline{1}$

12.



or



13. $2 \text{ Dogs} \rightarrow 1 \text{ Sheep}$
 $2 \text{ Sheep} \rightarrow 1 \text{ Pig} + 1 \text{ Dog}$
 $4 \text{ Dogs} \rightarrow 1 \text{ Pig} + 1 \text{ Dog}$
 $1 \text{ Pig} \rightarrow 3 \text{ Dogs}$
 $1 \text{ Sheep} + 1 \text{ Pig} = 2 \text{ Dogs} + 3 \text{ Dogs} = \underline{5 \text{ Dogs}}$

14. The multiples of 8 are found in column B. Since 2016 is a multiple of 8, it will appear in column B.

A	B	C	D	D	C	B	A
		1	2	3	4	5	6
7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22
23	24

15. $350 - 250 = 100$
 $100 \div 2 = 50$
 On Wed, both sold 50 plates of chicken rice.

$\$250 \div 50 = \5 (price Mr Khoo sells)
 $\$5 + \$2 = \$7$ (price Mr Lu sells)

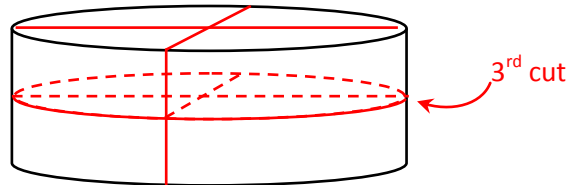
	Mon	Tue	Wed	Thu	Fri
Mr Khoo (\$5)	34	67	50	59	72
Mr Lu (\$7)	27	58	50	43	81

$81 - 72 = 9$
 Mr Lu sold 9 more plates of chicken rice on Friday.

16. $(0 \times 15) + (1 \times 20) + (2 \times 10) + (3 \times 25) + (4 \times 30) = \underline{235 \text{ books}}$ were borrowed

17. There are 3 spaces between the 1st cone and 4th cone.
 Each space $\rightarrow 12 \div 3 = 4 \text{ m}$
 There are 12 spaces between the 2nd cone and last cone.
 $12 \times 4 = \underline{48 \text{ m}}$

18. The first 2 cuts are perpendicular across the centre of the cake, making each slice $\frac{1}{4}$.
The 3rd cut slices each of these slices into 2, now making each slice $\frac{1}{8}$.

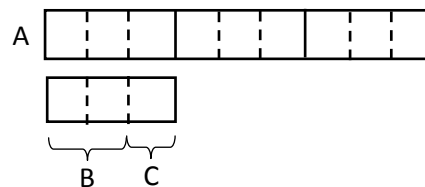


19. Mr X never lies, so he cannot be in the middle or on the right. Hence he is on the left. The other two men are lying. Hence, the man in the middle is Mr Z and the man on the right is Mr Y.
20. Since $\boxed{\times} \times \bigcirc = \boxed{\times}$, then \bigcirc must be 1.
Since $\diamond \times \diamond$ is equal to a 2-digit figure that ends with 1, then \diamond must be 9 and \heartsuit must be 8, as $9 \times 9 = 81$.
Hence, $\heartsuit \times \diamond = 8 \times 9 = \underline{72}$

Section C:

21. AH is parallel to EF or HA is parallel to FE.
AB is parallel to HG or GH is parallel to BA.
CD is perpendicular to DE.

22. 12 units \rightarrow 1080 ml
1 unit $\rightarrow 1080 \div 12 = 90$ ml
Pail A $\rightarrow 9$ units = 810 ml
Pail B $\rightarrow 2$ units = 180 ml
Difference in capacity = $810 - 180 = \underline{630}$ ml



23. 3 units (denominator) \rightarrow total number of fruits must be a multiple of 3.
Since there are already 7 fruits, then the next possible total is 9 or 12.
- If 3 units \rightarrow 9 fruits
then 1 unit \rightarrow 3 oranges
However, since there are already 4 oranges, the total number of fruits cannot be 9.
- If 3 units \rightarrow 12 fruits
then 1 unit \rightarrow 4 oranges
and 2 units (numerator) \rightarrow 8 apples
That means, there should be 8 apples and 4 oranges.
- $8 - 3 = 5$
He needs to buy 5 more apples.

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24.

Pattern	Number of squares	
1 st	1	$1 \times 2 - 1 = 1$
2 nd	3	$2 \times 2 - 1 = 3$
3 rd	5	$3 \times 2 - 1 = 5$
4 th	7	$4 \times 2 - 1 = 7$

So the 2016th pattern would have: $2016 \times 2 - 1 = \underline{4031}$ squares.

25. Sum of number of fish in the two smallest is 5. Since there are more than 1 fish in each bowl and the 1st bowl does not have the smallest number of fish, then the 1st bowl must have 3 fish and the 3rd bowl must have 2 fish. Then, the 2nd bowl must have $2 \times 3 = 6$ fish, and the 4th bowl must have $3 + 6 + 2 = 11$ fish.

$30 - 11 - 2 - 6 - 3 = 8$
The last bowl has 8 fish.