UNBOXED

PRIMARY 6 TERM 1 ASSESSMENT

1) Look at the pattern below.

3	9
12	6

4	?
16	8

5	15
?	10

6	18
24	12

7	21
28	14

Find the sum of the two missing numbers.

(1) 8

(2) 12

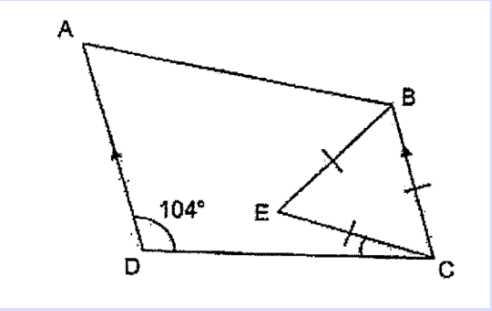
(3) 20

(4) 32

( )

P6/WA1/2018/NYPS/Q11/P1

2) In the figure below, ABCD is a trapezium with Ad parallel to BC, BCE is an equilateral triangle and ∠ACD = 104°. Find ∠DCE.



(1) 16°

(2) 44°

(3) 60°

(4) 76°

( )

P6/CA1/2020/RSPS/Q4

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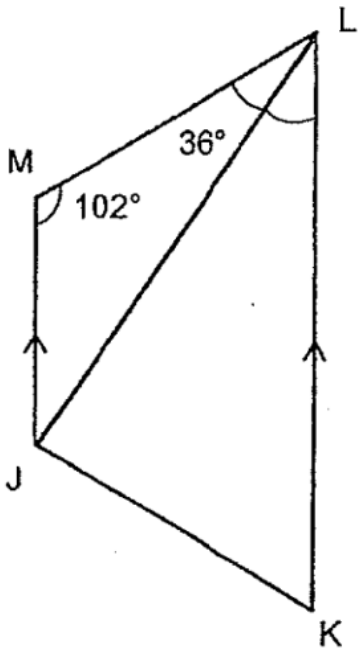
3) The monthly salary of Mr Gill is the same each month. In November, Mr Gill spent $1600 of his salary and saved the rest. In December, he increased his spending by 30% and his savings decreased by 50%. How much did he save in November?

Answer : _____

P6/WA1/2018/NYPS/Q27/P1

4) JKLM is a trapezium. ∠ JML = 102° and ∠ MLJ = 36°. Find ∠ JLK.



Answer : _____°

P6/CA1/2020/ACSJ/Q9

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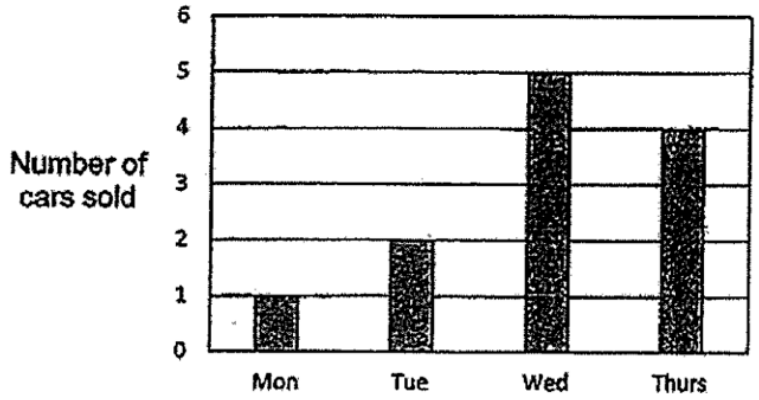
5) The graph shows the number of cars sold in a shop over 4 days.



On which day was $\frac{1}{6}$ of the total number of cars sold over 4 days?

Answer : _____

P6/CA1/2020/RSPS/Q19

6) The total mass of Alvin, Brian and Calvin is (4n + 9) kg. The mass of Alvin is 2n kg and the mass of Brian is half of Alvin's.

(a) What is the mass of Calvin? Give your answer in terms of n.

(b) Given n = 35, what is the mass of Calvin?

Answer : (a) _____

(b) _____

P6/CA1/2019/CHIJ/Q7

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7) Jarrod poured 30.8 L of water into 2 empty containers. Container X and Container Y, without overflowing. Only Container X was completely filled. It contained 10 times as much water as Container Y.

(a) How many litres of water did Jarrod pour into Container Y?

(b) The ratio of the total capacity of Container X to the total capacity of Container Y was 5 : 8. How much more water was needed to fill Container Y completely?

Answer : (a) _____

(b) _____

P6/CA1/2017/CHIJ/Q5/P2

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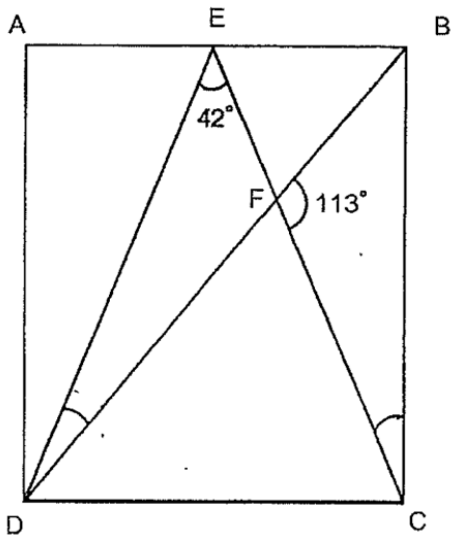
8) In the figure below, ABCD is a rectangle and ECD is an isosceles triangle. ED = EC. ∠ DEC = 42° and ∠ BFC = 113°.

(a) Find ∠ECB



(b) FInd ∠EDB

Answer : (a) _____

(b) _____

P6/CA1/2020/ACSJ/Q22

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9) Linda and Rani collected stickers in the ratio 5 : 1. After Linda gave 20 stickers to Rani, their ratio became 5 : 7. How many stickers did Rani have in the end?

Answer : _____

P6/CA1/2017/RPS/Q27/P1

10) There were 7 participants who took part in a quiz. Their average score was g. Later, 2 more participants joined the quiz. Each of them scored 20 marks.

(a) What was the new total score for all the participants? Express your answer in terms of g in the simplest form.

(b) If g = 29, find the new average score of all the participants.

Answer : (a) _____

(b) _____

P6/CA1/2017/RPS/Q7/P2

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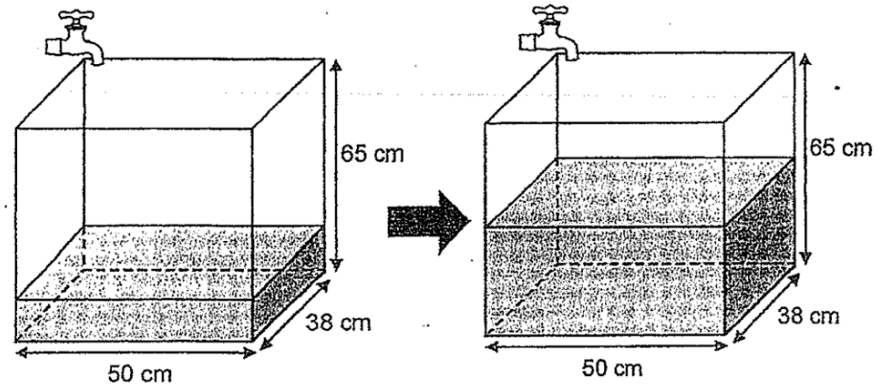
11) Water flowed from a tap at the same rate into a rectangular tank measuring 50 cm by 38 cm by 65 cm. At 6 p.m. , the height of the water in the tank was 13 cm. At 6.30 p.m. , it was $\frac{1}{2}$ filled with water. How much water flowed into the tank in one minute?



Answer : _____

P6/CA1/2019/CHIJ/Q13

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12) In Company X, the ratio of the number of women to the number of men is 3 : 1.
In Company Y, the ratio of the number of women to the number of men is 2 : 1.
The number of workers in Company X is $\frac{2}{3}$ the number of workers in Company Y.

(a) Find the ratio of the number of men in Company X to the number of men in Company Y.

(b) When 40 women left Company X to join Company Y, the ratio of the number of women to the number of men in Company Y became 51 : 25. Find the number of women in Company Y now.

Ans : (a) _____

(b) _____

P6/CA1/2017/TNPS/Q17/P2

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RUBRICS

Criteria	Excellent (3)	Developing (2)	Needs improvement (1)
Fractions : - ability to divide a proper whole number and a whole number/proper fraction by a proper fraction without a calculator - ability to solve complex problems involving fractions - ability to find the relationship between fraction and ratio			
Ratio : - ability to identify and find common base - ability to express as an internal or external transfer process - ability to find the relationship between fraction and ratio			
Percentage : - ability to find the whole given a part and the percentage - ability to calculate increase/decrease - ability to solve multi-step problems involving percentages			
Interpretation of bar graph : - ability to read, identify numbers on a bar graph and interpret			
Geometry : - able to find unknown angles in various quadrilaterals including parallelograms, rhombuses and trapeziums			

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