

Revision Test 2



PAPER 1 (20 + 20 = 40 marks) The use of calculators is not allowed.
BOOKLET A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

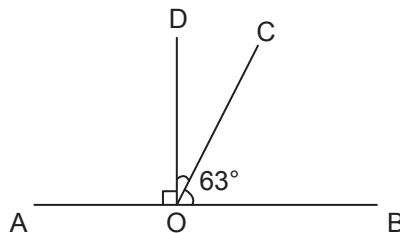
Choose the correct answer and write its number in the brackets provided.

1. A tap runs at a rate of 550 cm^3 per minute. How many litres of water can be collected when the tap runs for half an hour? ($1 \text{ l} = 1000 \text{ cm}^3$)

- (1) 1.65 l (3) 165 l
(2) 16.5 l (4) 16 500 l ()

2. The figure below is not drawn to scale. AB is a straight line. $\angle BOC = 63^\circ$ and $\angle AOD$ is a right-angle. Find $\angle DOC$.

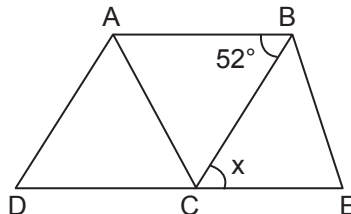
- (1) 27°
(2) 90°
(3) 117°
(4) 153°



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3. ABCD is a rhombus. BCE is a triangle. Find $\angle x$.

- (1) 26°
(2) 52°
(3) 104°
(4) 128°



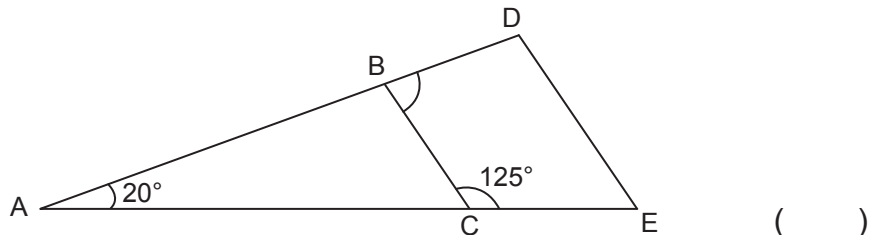
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4. Which of the following is not a property of a rhombus?
- (1) Each pair of angles between the perpendicular sides of a rhombus adds up to 180° .
 - (2) The opposite angles in a rhombus are equal.
 - (3) The opposite sides in a rhombus are parallel.
 - (4) All sides of a rhombus are equal. ()

5. Roger takes 2 days to construct 5 cabinets. At this rate, how many days does he take to construct 20 cabinets?
- (1) 4 days
 - (2) 8 days
 - (3) 10 days
 - (4) 12 days ()

6. ABC and ADE are triangles. $\angle BAC = 20^\circ$ and $\angle BCE = 125^\circ$. Find $\angle CBD$.

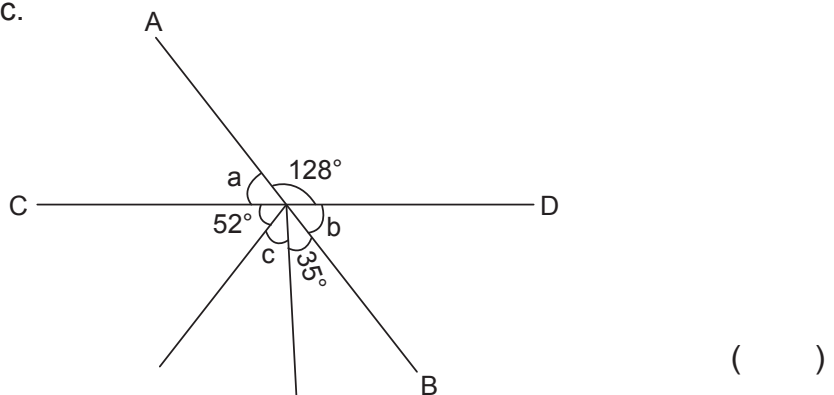
- (1) 55°
- (2) 75°
- (3) 105°
- (4) 125°



7. Convert 8.052 l to litres and millilitres.
- (1) 8 l 52 ml
 - (2) 8 l 502 ml
 - (3) 8 l 520 ml
 - (4) 80 l 52 ml ()

8. AB and CD are straight lines. The figure below is not drawn to scale. Find the sum of $\angle a$ and $\angle c$.

- (1) 76°
- (2) 93°
- (3) 104°
- (4) 145°

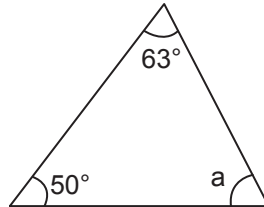


9. Simon bought a computer game inclusive of 7% GST (Goods & Services Tax) at \$561.75. How much was the computer game without GST?

- (1) \$500 (3) \$555
 (2) \$525 (4) \$561 ()

10. The figure below is not drawn to scale. Find $\angle a$.

- (1) 27°
 (2) 50°
 (3) 57°
 (4) 67°



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11. The total height of 3 girls and 2 boys is 535 cm. The total height of the 3 girls is 327 cm. What is the difference in the average height between each girl and each boy?

- (1) 2 cm (3) 4 cm
 (2) 3 cm (4) 5 cm ()

12. Uncle Roy bought 72 kg of seafood. 45% of the seafood were crabs, 15% of the seafood were squids and the rest were prawns. How many grams of prawns were there?

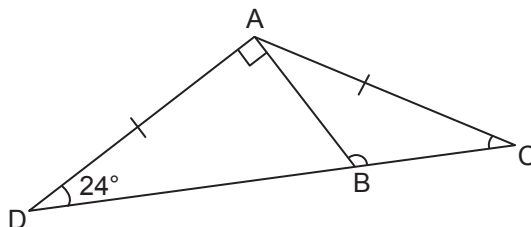
- (1) 10 800 g (3) 32 400 g
 (2) 28 800 g (4) 43 200 g ()

13. $0.978 \times \square = 97.8$. The missing number in the box is _____.

- (1) 10 (3) 1000
 (2) 100 (4) 10 000 ()

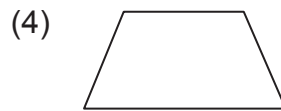
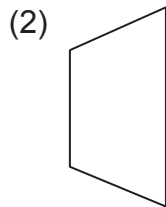
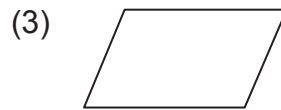
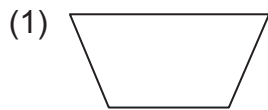
14. The figure below, not drawn to scale, is made up of two triangles. Find $\angle ABC$.

- (1) 24°
 (2) 66°
 (3) 114°
 (4) 156°



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15. Which of the following figures is not a trapezium?



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BOOKLET B (20 marks)

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.

Write your answers on the lines provided.

16. $104 \div 1000 =$ _____

17. Priscilla bought 13 m of cloth to make some dresses. A metre of cloth cost \$2.99. How much did she spend on the cloth? _____

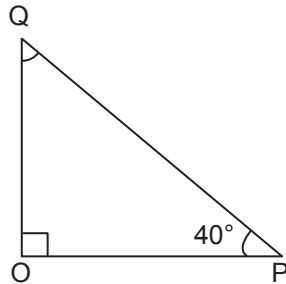
18. Express 0.02 as a percentage. _____

19. The average mass of Simon, Sandy and Lucy is 42 kg. The average mass of Simon, Lucy and Leon is 45 kg. If Simon's mass is 36 kg and Lucy's mass is 40 kg, find the total mass of Sandy and Leon. _____

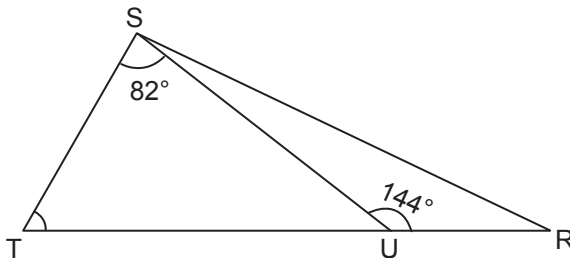
20. Christine spends 54% of her pocket money. If she receives \$60 for her pocket money, how much does she spend? _____

21. Mrs Spencer makes 1.8 litres of barley water every day. If she makes the same amount of barley water for two weeks, how much barley water does she make in all? Express your answer in millilitres. _____

22. The figure below is not drawn to scale. Find $\angle OQP$. Identify $\triangle OPQ$. _____

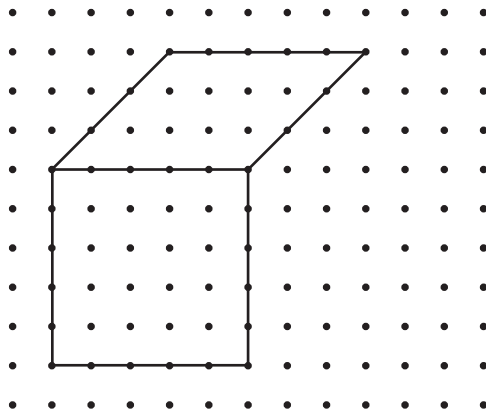


23. RST is a triangle, not drawn to scale. $\angle TSU = 82^\circ$ and $\angle SUR = 144^\circ$. Find $\angle STU$. _____



24. The capacity of a bathtub is 40 l. If it is only 30% filled with water, how much more water is needed to fill the bathtub completely? _____

25. Complete the drawing of the cuboid below.



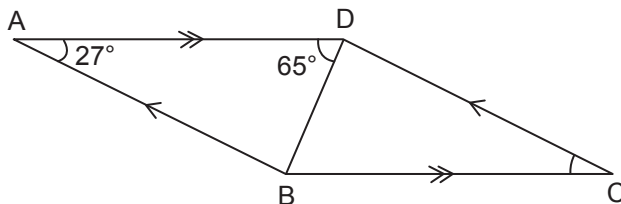
26. Jaycee earns \$1440 a month by teaching in a tuition centre. If she teaches 20 hours in a month, what is her average hourly pay? _____

27. Express 52% as a fraction in its simplest form. _____

28. The total age of three children is 19 years 3 months. What is their average age? Express your answer in years and months. _____

29. Kenny invests \$12 500 in a fund. The interest rate is 8.5% per year. How much will he have in the fund after a year? _____

30. ABCD is a parallelogram, not drawn to scale. $\angle BAD = 27^\circ$ and $\angle ADB = 65^\circ$. Find $\angle DBC$. _____



PAPER 2 (10 + 50 = 60 marks) The use of calculators is allowed.


SHORT-ANSWER (10 marks)

Questions 31 to 35 carry 2 marks each. Write your answers on the lines provided.

31. There are 6055 students in a school. 3633 of them are girls. What percentage of the students are boys? _____

32. A blue pen costs \$1.95. Find the total cost of 20 dozens identical blue pens. _____

33. A worker is paid \$9.50 per hour. How much is he paid if he works 8 hours in a day from Monday to Thursday? _____

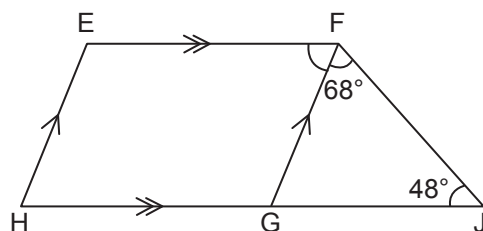
 34. Divide 3120.75 by 15. _____

 35. Find the value of 32.05×13 . _____

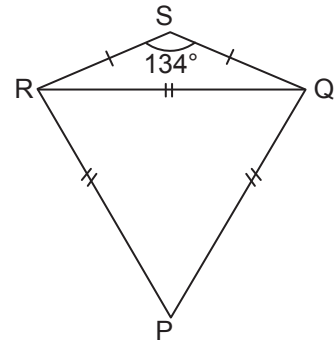
STRUCTURED / LONG-ANSWER (50 marks)

For questions 36 to 48, show your working clearly and write your answers in the space provided. The marks are shown in the brackets.

36. The figure below, not drawn to scale, is made up of a parallelogram and a triangle. $\angle GFJ = 68^\circ$ and $\angle FJG = 48^\circ$. Find $\angle EFG$. **[3]**



37. The figure below, not drawn to scale, is made up of an isosceles triangle SQR and an equilateral triangle PQR. $\angle RSQ = 134^\circ$. Find $\angle SQP$. [3]



38. During weekdays, a museum has an average number of 790 visitors per day. During weekends, the total number of visitors is 2910. What is the average number of visitors in a week? [3]

39. Anna bought a handbag which cost \$2999. She bought another wallet at \$699. She paid for the two items with a 7% GST (Goods and Services Tax).
- (a) How much was the GST? [2]

(b) How much did she pay in all? [1]

40. A machine can pack 200 bars of chocolates in 5 minutes. How many bars of chocolates can the machine pack in 1.5 hours? [3]

41. There are 900 students in a school. 720 of the students are Chinese. 0.75 of the remaining students are Malay and the rest are Indians. How many Indian students are there in the school? [4]

42. Draw a trapezium ABCD in which $AD \parallel BC$, $AB = 2$ cm, $BC = 7$ cm, $\angle ABC = 44^\circ$ and $\angle BCD = 38^\circ$. [4]

43. There are 560 trees in an orchard. 25% of the trees are apple trees. More apple trees are planted and the number of apple trees now becomes 0.4 of the total number of trees in the orchard. How many additional apple trees are planted? **[4]**

44. 1 Singapore Dollar can be exchanged for 35.14 Philippine Pesos.
- (a) How much Philippine Pesos can 28 Singapore Dollars be exchanged for? **[2]**
- (b) How much Singapore Dollars can 280 Philippine Pesos be exchanged for? (Give your answer to 2 decimal places.) **[2]**

45. Jimmy has a tank of 80 cm long, 60 cm wide and 120 cm high. Water flows into the tank for $1\frac{1}{2}$ hours at a rate of 1.6 litres per minute. ($1 \text{ l} = 1000 \text{ cm}^3$)

(a) How much water will be in the tank after $1\frac{1}{2}$ hours? Express your answer in cubic centimetres. **[2]**

(b) How many hours will it take for the tank to be completely filled with water? **[2]**

46. A shopkeeper had a sack of flour of mass 80 kg. He sold 0.45 of the flour to Mr Bill and 58% of the unsold flour to Mrs Drew. After selling flour to both of them, he packed the remaining into packs of 250 g.

(a) How many 120-g packs of flour did he pack? **[4]**

(b) How much flour was left? **[1]**

47. The following is a flyer put up by a tour agency.

1-Day Tour Package 

Includes:

- Lunch
- City tour
- Massage

**ONLY \$68
PER HEAD**

* 4th person free!

Mrs Wong pays \$748 in all. How many people does she bring along? [5]

48. Jason bought some stationery items. $\frac{1}{4}$ of them were pens. The ratio of the number of pencils to the number of erasers was 3 : 2. The prices of the stationery items were as follows:

Stationery items	Cost of each item
Pens	\$1.20
Pencils	\$0.60
Erasers	\$0.80

If he spent \$81 in total, how many pencils did he buy? [5]