

Trial Test

BOOKLET A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, choose the correct answer and write its number (1, 2, 3 or 4) in the brackets provided. [20 m]

1. Complete the number pattern below.

46 980, 49 480, _____, 54 480

(1) 50 480

(3) 52 980

(2) 51 980

(4) 53 480

()

2. Wendy is facing south-east now. She makes a $\frac{1}{4}$ -turn in the clockwise direction, followed by an angle of 225° in the anticlockwise direction. In which direction will Wendy be facing?

(1) north

(3) east

(2) south-west

(4) south-east

()

3. $\frac{1}{4} + \frac{3}{4} + \frac{5}{8} = \square$

(1) $\frac{9}{8}$

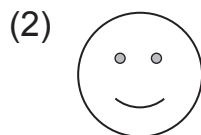
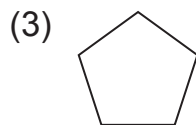
(3) $\frac{13}{8}$

(2) $\frac{11}{8}$

(4) $\frac{15}{8}$

()

4. Which of the following figures has at least 3 lines of symmetry?



()

5. How many hundredths are there in 67.05?
 (1) 67 (3) 6705
 (2) 675 (4) 67 005 ()
6. How many seconds are there in 3 minutes?
 (1) 90 (3) 240
 (2) 180 (4) 300 ()
7. In 84.973, the digit 7 stands for _____.
 (1) 7 tens (3) 7 hundredths
 (2) 7 tenths (4) 7 thousandths ()
8. Which of the following is a common factor of 15 and 40?
 (1) 2 (3) 8
 (2) 5 (4) 10 ()
9. Adeline saves \$42.30 every month. How much will she save in 3 months?
 (1) \$106.90 (3) \$136.90
 (2) \$126.90 (4) \$156.90 ()
10. $2.367 \times \boxed{} = 2367 \div 100$
 What is the missing number in the box?
 (1) 10 (3) 1000
 (2) 100 (4) 10 000 ()
11. Round off the sum of 63 920 and 7645 to the nearest thousand.
 (1) 70 000 (3) 72 000
 (2) 71 000 (4) 73 000 ()
12. Amy collected 324 seashells. She collected 78 more seashells than Betty.
 How many seashells did they collect altogether?
 (1) 246 (3) 570
 (2) 492 (4) 726 ()

The table below shows the number of points scored by different teams at a sports meet. Study it carefully and answer questions 13 to 15.

Teams	Yellow	Green	Red	Blue	Purple
Points	351	187	308	402	298

13. Which team had 94 fewer points than the Blue team?
 (1) Red (3) Yellow
 (2) Green (4) Purple ()
14. Which two teams had a total of 538 points?
 (1) Yellow and Purple (3) Red and Purple
 (2) Yellow and Green (4) Red and Green ()
15. What were the total points scored by all five teams?
 (1) 1237 (3) 1546
 (2) 1537 (4) 1618 ()

BOOKLET B

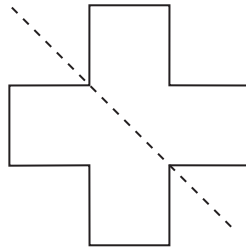
Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. For questions 26 to 35, show your working clearly in the space given. Write your answers on the lines provided. For questions that require units, these units are provided. Give your answers in the stated units.

[30 m]

16. Complete the pattern below.

_____, 48.38, _____, 73.58, 86.18

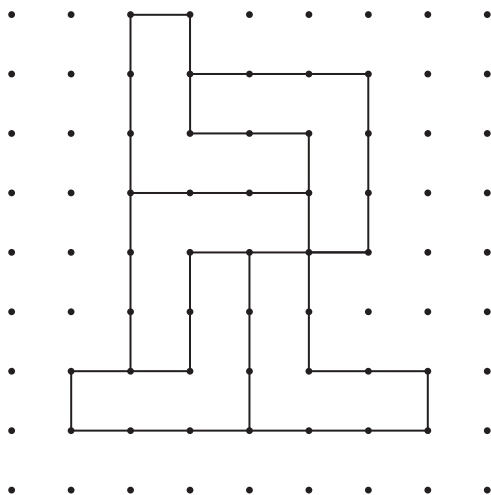
17. State if the dotted line is a line of symmetry of the figure below.



18. Complete the symmetric figure below.



19. Identify the unit shape in the tessellation below by shading it.



20. In Rio de Janeiro, the clock shows 09 55 while the clock shows 15 55 in Dubai. If the time in Dubai is 23 00, what is the time in Rio de Janeiro?

21. Draw an angle measuring 132° in the space below.

22. 21 elevenths =

Express your answer as a mixed number.

23. What is $\frac{5}{6}$ of 1680?

24. Harry had 354 marbles. Bob had 28 more marbles than Harry. How many marbles did they have in all?

25. The cost of 5 kg of sugar is \$13.50. Find the cost of 2 kg of sugar.

\$_____

26. What is the quotient when 5467 is divided by 9?

27. A plank of wood, 1008 cm long, is cut into 8 equal pieces. What is the length of each piece of wood?

_____ cm

28. Find the sum of 9396 and 1207.

29. A rectangular garden measures 80 m by 52 m. Find the cost of landscaping the garden at \$9 per square metre.

\$_____

30. A typist can type 90 words in 180 s. Find the number of words she can type in 300 s if she maintains a constant speed.

_____ words

31. Find the product of 25 tens and 5 tens 3 ones.

32. A fruiterer sold 350 mandarin oranges. He sold them at 7 for \$1.55. How much would he earn from selling all 350 mandarin oranges?

\$_____

33. The breadth of a rectangle is 72 cm. If the length of the rectangle is $\frac{1}{3}$ its length, find the area of the rectangle.

_____ cm²

34. Jennifer took 228 s to brew 9 cups of coffee in a contest. Patrina took 12 s less than Jennifer to brew the same number of cups of coffee. If Patrina used the same length of time to brew each cup of coffee, how much time did she use to brew a cup of coffee?

_____ s

35. Round off the product of 4537 and 6 to the nearest ten thousand.

For questions 36 to 48, show your working clearly in the space and write your answers on the lines provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

[50 m]

36. Benjamin works the night shifts in a factory. His working hours are from 22 00 to 06 00 the next day. How many hours will he work in 6 days?

[3]

Ans: _____

- 37.** A pair of shoes and a dress cost \$398. If the dress cost thrice as much as the pair of shoes, find the cost of 2 such pairs of shoes. [3]

Ans: _____

- 38.** Uncle Roger bought 6 boxes of chocolates during Christmas. Each box of chocolates cost \$9.95. How much did Uncle Roger pay for all the chocolates? [3]

Ans: _____

39. Beatrice had \$640. She spent $\frac{1}{4}$ of it on a dress and a pair of shoes. She also bought a present and had $\frac{3}{8}$ of the money left. How much was the present? [3]

Ans: _____

40. Ken has a box. The breadth of the box is $\frac{4}{5}$ its length. If the length of the box is 55 cm, find the area of the box. [3]

Ans: _____

41. A study room is 6 m wide and 11 m long. Mrs Kelly wants to use an area that measures 2 m wide by 5 m long for bookshelves. Find the remaining area of the study room. [3]

Ans: _____

42. There were 5979 participants in a competition. There were 1200 fewer men than women. There were 120 more men than children. How many men took part in the competition? [4]

Ans: _____

- 43.** 3 shirts and 2 blouses cost \$131. 3 shirts and 3 blouses cost \$159. Find the cost of 1 shirt and 1 blouse. [4]

Ans: _____

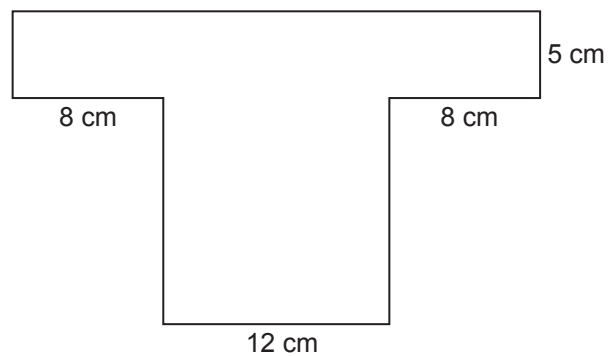
- 44.** The length of a square field was 480 m. Victor ran 3 times round the square field.
- (a) What was the total distance that Victor ran? [2]

- (b) If Victor had to run a distance of 10 000 m, what is the distance that he still needed to run? [2]

Ans: (a) _____

(b) _____

45. The figure below is made up of a square and a rectangle.



- (a) Find its perimeter. [2]

(b) Find its area.

[2]

Ans: (a) _____

(b) _____

46. $\frac{1}{9}$ of the students choose to join choir. $\frac{1}{3}$ of the remaining students choose to join aerobics. The remaining 128 students choose to join gymnasium.

(a) How many students choose to join choir? [3]

(b) How many students are there altogether?

[2]

Ans: (a) _____

(b) _____

47. Grandfather is 90 years old this year. Celine is 18 years old this year.

(a) In how many years will Grandfather be 4 times as old as Celine? [3]

(b) How old will Celine be when Grandfather is 4 times as old as her then? [2]

Ans: (a) _____

(b) _____

48. A number of lollipops were shared among a group of children. If each child received 8 lollipops, there would be an extra lollipop. If each child received 9 lollipops, there would be 5 lollipops short. If there were fewer than 50 lollipops, how many lollipops were there? [5]

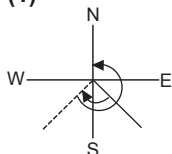
Ans: _____

1. (2)

$$49\,480 - 46\,980 = 2500$$

$$49\,480 + 2500 = 51\,980$$

2. (1)

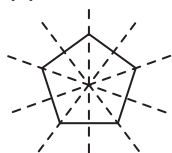


3. (3)

$$\frac{1}{4} + \frac{3}{4} + \frac{5}{8} = \frac{2}{8} + \frac{6}{8} + \frac{5}{8}$$

$$= \frac{13}{8}$$

4. (3)



Option 3 has 5 lines of symmetry.

5. (3)

$$67.05 \div 0.01 = 6705$$

6. (2)

$$3 \times 60 = 180 \text{ s}$$

7. (3)

8. (2)

Factors of 15: 1, 3, 5 and 15

Factors of 40: 1, 2, 4, 5, 8, 10, 20 and 40

Common factors of 15 and 40: 1 and 5

9. (2)

$$3 \times \$42.30 = \$126.90$$

10. (1)

$$2.367 \times \boxed{} = 23.67$$

$$2.367 \times 10 = 23.67$$

11. (3)

$$63\,920 + 7645 = 71\,565 \approx 72\,000$$

12. (3)

$$324 - 78 = 246$$

$$324 + 246 = 570$$

13. (1)

$$402 - 94 = 308$$

14. (2)

$$351 + 187 = 538$$

15. (3)

$$351 + 187 + 308 + 402 + 298 = 1546$$

16. 35.78; 60.98

$$86.18 - 73.58 = 12.6$$

$$48.38 - 12.6 = 35.78$$

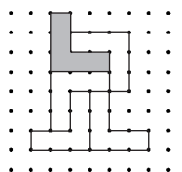
$$73.58 - 12.6 = 60.98$$

17. Yes

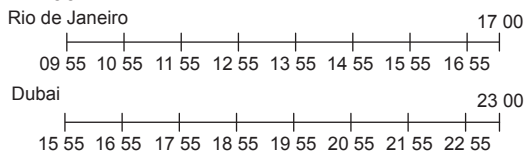
18.



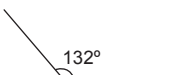
19. Accept other correct answers.



20. 17 00



21.



22. $1\frac{10}{11}$

$$21 \text{ elevenths} = \frac{21}{11} = 1\frac{10}{11}$$

23. 1400

$$\frac{5}{6} \times 1680 = 1400$$

24. 736 marbles

$$354 + 28 = 382$$

$$354 + 382 = 736$$

25. 5.40

$$\$13.50 \div 5 = \$2.70$$

$$2 \times \$2.70 = \$5.40$$

Adapted:

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26. **607**
 $5467 \div 9 = 607 \text{ R } 4$

27. **126**
 $1008 \div 8 = 126 \text{ cm}$

28. **10 603**
 $9396 + 1207 = 10\ 603$

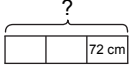
29. **37 440**
 $80 \times 52 = 4160 \text{ m}^2$
 $4160 \times \$9 = \$37\ 440$

30. **150**
 $180 \div 90 = 2 \text{ s to type a word}$
 $300 \div 2 = 150 \text{ words}$

31. **13 250**
 $250 \times 53 = 13\ 250$

32. **77.50**
 $350 \div 7 = 50$
 $50 \times \$1.55 = \77.50

33. **15 552**

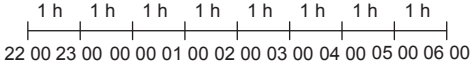


length = $72 \times 3 = 216 \text{ cm}$
 $72 \times 216 = 15\ 552 \text{ cm}^2$

34. **24**
 $228 - 12 = 216 \text{ s}$
 $216 \div 9 = 24 \text{ s}$


35. **30 000**
 $4537 \times 6 = 27\ 222 \approx 30\ 000$

36. **48 hours**



Benjamin works 8 hours a day.
 $6 \times 8 = 48$
 He works 48 hours in 6 days.

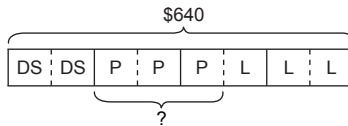
37. **\$199**



$\$398 \div 4 = \99.50
 A pair of shoes cost \$99.50.
 $2 \times \$99.50 = \199
 2 such pairs of shoes cost \$199.

38. **\$59.70**
 $6 \times \$9.95 = \59.70
 Uncle Roger paid \$59.70 for all the chocolates.

39. **\$240**



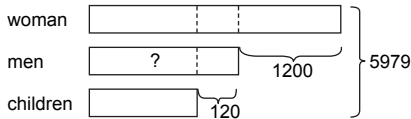
From the model,
 8 units \rightarrow \$640
 1 unit \rightarrow $\$640 \div 8$
 $= \$80$
 3 units $\rightarrow 3 \times \$80$
 $= \$240$

The present was \$240.

40. **2420 cm²**
 $\frac{4}{5} \times 55 = 44 \text{ cm}$
 The breadth of the box is 44 cm.
 $44 \times 55 = 2420 \text{ cm}^2$
 The area of the box is 2420 cm².

41. **56 m²**
 $6 \times 11 = 66 \text{ m}^2$
 The area of the room is 66 m².
 $2 \times 5 = 10 \text{ m}^2$
 The area for the bookshelves is 10 m².
 $66 - 10 = 56 \text{ m}^2$
 The remaining area of the study room is 56 m².

42. **1633 men**



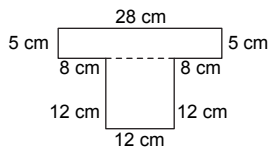
$5979 - 1200 - 120 - 120 = 4539$
 $4539 \div 3 = 1513$
 There were 1513 children.
 $1513 + 120 = 1633$
 1633 men took part in the competition.

43. **\$53**
 $\$159 - \$131 = \$28$
 One blouse costs \$28.
 $2 \times \$28 = \56
 Two blouses cost \$56.
 $\$131 - \$56 = \$75$
 $\$75 \div 3 = \25
 One shirt costs \$25.
 $\$25 + \$28 = \$53$
 1 shirt and 1 blouse cost \$53.

44. (a) **5760 m**
 $4 \times 480 = 1920 \text{ m}$
 The field has a perimeter of 1920 m.
 $3 \times 1920 = 5760 \text{ m}$
 Victor ran a total distance of 5760 m.

(b) **4240 m**
 $10\ 000 - 5760 = 4240 \text{ m}$
 He needed to run 4240 m more.

45. (a) 90 cm



$28 + 5 + 8 + 12 + 12 + 12 + 12 + 8 + 5 = 90$ cm
Its perimeter is 90 cm.

(b) 284 cm²

$(28 \times 5) + (12 \times 12)$
= 140 + 144
= 284 cm²
Its area is 284 cm²

46. (a) 24 students

$\frac{2}{3}$ of the remaining students $\rightarrow 128$

$\frac{1}{3}$ of the remaining students $\rightarrow 128 \div 2 = 64$

$128 + 64 = 192$

The remaining students who join gymnasium and aerobics are 192.

$\frac{8}{9} \rightarrow 192$

$\frac{1}{9} \rightarrow 192 \div 8 = 24$

24 students choose to join choir.

(b) 216 students

$192 + 24 = 216$

There are 216 students altogether.

47. (a) 6 years

Using guess-and-check method:

	Grandfather's age	Celine's age	Is Grandfather's age 4 times Celine's?
now	90	18	×
2 years	92	20	×
4 years	94	22	×
6 years	96	24	✓

Grandfather will be 4 times as old as Celine in 6 years' time.

(b) 24 years old

Celine will be 24 years old.

48. 49 lollipops

multiples of 8	8	16	24	32	40	48
+ 1 lollipop	9	17	25	33	41	(49)
multiples of 9	9	18	27	36	45	54
- 5 lollipops	4	13	22	31	40	(49)

There were 49 lollipops.

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