

Master Coaching

Selective Schools

Mathematics Practice Test

MA-07

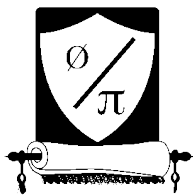
Note ... Correct Answers are provided on a single sheet (as page 6)

There is a blank Answer sheet supplied (as page 7)

There are 40 multiple-choice questions.

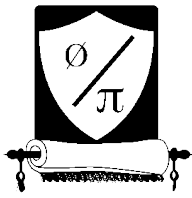
Only choose one of the answers **a**, **b**, **c** or **d** at each question

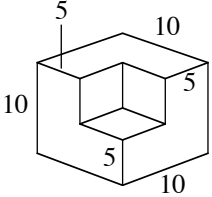
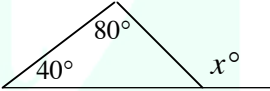
The time allowed is **40 minutes**.

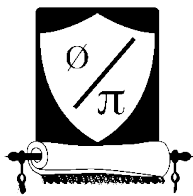


* circle the letter of the best answer to each question on your answer sheet.

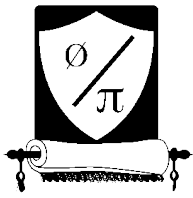
- 1 $\frac{18}{71}$ reduced to its lowest terms would be a $\frac{6}{23}$ b $\frac{3}{11}$ c $\frac{1}{4}$ d already in its lowest terms
- 2 If $\frac{7}{8}$ was changed to a decimal, it would be a 0.625 b 0.875 c 0.7 d 0.75
- 3 10555 rounded to the nearest ten is a 10560 b 10500 c 10550 d 11000
- 4 A triangle has a base of 16 cm. The area of the triangle is 96 sq.cm.
The perpendicular height is a 12 cm b 8 cm c 6 cm d 14 cm
- 5 Which of these represents the greatest value?
a 7% of \$200 b 0.7 of \$100 c $\frac{7}{10}$ of \$200 d both answers a and c
- 6 I bought a car for \$10000. I sold it six months later at a loss of 20% of the original price.
For what price did I sell it? a \$2000 b \$9980 c \$8500 d \$8000
- 7 I saved a total of \$200 for the first four months of the year but I saved \$150 in the fifth month.
What was my average saving per month for the five months?
a \$70 b \$175 c \$100 d \$50
- 8 A farmer needs to re-fence a large field that is 400 m long and 200 m wide.
The fence has 4 gates, each measuring 4.5 m. The gates do not need replacing.
What is the total length of fencing that the farmer will need to purchase?
a 1200 m b 1218 m c 1182 m d 982 m
- 9 The capacity of a large container is 512 m^3 .
Which of these might represent its measurements?
a an 8m cubic container b 21m long, 4m wide, 8m high
c 12m long, 4m wide, 8m high d both answers a and b
- 10 In Year 9, $\frac{3}{8}$ of the students do Advanced Maths and $\frac{1}{2}$ do Intermediate.
The rest study General. There are 240 students in Year 9.
How many students do General Maths? a 15 b 60 c 30 d 45



- 11 On a scale drawing, 4 cm represents 600 m.
This is a scale of **a** 1 : 150 **b** 1 : 300 **c** 1 : 1200 **d** 1 : 15000
- 12 I have to draw a pie graph to show the results of the class survey on favourite television shows. There are 30 students in the class.
The results were : Friends - 10 Home and Away - 6 Neighbours - 6
 Buffy - 6 Water Rats - 2
- What would be the approximate angle for the sector showing the result for 'Friends'?
- a** 180° **b** 120° **c** 24° **d** 72°
- 13 A truck driver leaves his home town base for an interstate trip at 18:00 on Sunday.
He drives for twelve hours, and also stops twice for half-hour breaks.
On Monday, when does he reach his destination? **a** 7pm **b** 7am **c** 6am **d** 9am
- 14 This was originally a complete 10cm cube.
A 5cm cube was removed from one corner as shown.
What fraction of it has been removed?
- a** one half **b** one quarter **c** one eighth **d** one sixteenth
- dimensions are cm
- 
- 15 In the diagram x equals
- a** 100 **b** 120 **c** 160 **d** 140
- 
- 16 $\frac{91}{105}$ reduced to its lowest terms is **a** $\frac{13}{15}$ **b** $\frac{6}{7}$ **c** $\frac{19}{21}$ **d** already in its lowest terms
- 17 $\frac{12}{16}$ changed to a decimal would be **a** 0.075 **b** 0.6 **c** 0.33 **d** 0.75
- 18 12249 rounded to the nearest hundred is **a** 12300 **b** 12000 **c** 12200 **d** 12500
- 19 A triangle has a base of 20 cm. and an area of 150 square cm.
The perpendicular height is **a** 15 cm **b** 7 cm **c** 6.5 cm **d** 10 cm
- 20 Which of these represents the greatest value?
- a** 13% of \$100 **b** 0.013 of \$100 **c** 6.5% of \$200 **d** both answers a and c



- | | | | | | | | | | |
|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|
| 1 | a | b | c | (d) | 21 | a | b | c | (d) |
| 2 | a | (b) | c | d | 22 | a | (b) | c | d |
| 3 | (a) | b | c | d | 23 | (a) | b | c | d |
| 4 | (a) | b | c | d | 24 | a | b | c | (d) |
| 5 | a | b | (c) | d | 25 | a | b | (c) | d |
| ----- | | | | | ----- | | | | |
| 6 | a | b | c | (d) | 26 | a | (b) | c | d |
| 7 | (a) | b | c | d | 27 | (a) | b | c | d |
| 8 | a | b | (c) | d | 28 | a | b | (c) | d |
| 9 | (a) | b | c | d | 29 | a | b | c | (d) |
| 10 | a | b | (c) | d | 30 | a | (b) | c | d |
| ----- | | | | | ----- | | | | |
| 11 | a | b | c | (d) | 31 | a | b | c | (d) |
| 12 | a | (b) | c | d | 32 | (a) | b | c | d |
| 13 | a | (b) | c | d | 33 | a | b | (c) | d |
| 14 | a | b | (c) | d | 34 | a | (b) | c | d |
| 15 | a | (b) | c | d | 35 | (a) | b | c | d |
| ----- | | | | | ----- | | | | |
| 16 | (a) | b | c | d | 36 | a | b | c | (d) |
| 17 | a | b | c | (d) | 37 | a | (b) | c | d |
| 18 | a | b | (c) | d | 38 | a | b | c | (d) |
| 19 | (a) | b | c | d | 39 | a | b | (c) | d |
| 20 | a | b | c | (d) | 40 | (a) | b | c | d |



Date : _____

Name : _____

Score : _____

Master Coaching

* Circle the letter of the best answer to each question ... for example 1 a b d

1 a b c d

21 a b c d

2 a b c d

22 a b c d

3 a b c d

23 a b c d

4 a b c d

24 a b c d

5 a b c d

25 a b c d

6 a b c d

26 a b c d

7 a b c d

27 a b c d

8 a b c d

28 a b c d

9 a b c d

29 a b c d

10 a b c d

30 a b c d

11 a b c d

31 a b c d

12 a b c d

32 a b c d

13 a b c d

33 a b c d

14 a b c d

34 a b c d

15 a b c d

35 a b c d

16 a b c d

36 a b c d

17 a b c d

37 a b c d

18 a b c d

38 a b c d

19 a b c d

39 a b c d

20 a b c d

40 a b c d