

Master Coaching

Selective Schools

Mathematics Practice Test

MA-06

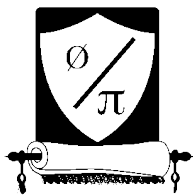
Note ... Correct Answers are provided on a single sheet (as page 6)

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 What is the lowest common multiple of 3, 5 and 7? a 15 b 105 c 90 d 35

2 $0.002 \times 1000 =$ a 2 b 0.2 c 0.000002 d 0.02

3 $1\frac{1}{4} \div 0.25 =$ a 1 b 5 c $\frac{5}{16}$ d 0.75

4 I spend $\frac{5}{8}$ of my total money at Target and $\frac{1}{4}$ at Big W.

I began with \$40. How much do I have left? a \$10 b \$4 c \$5 d \$8

5 After five months of a year, my petrol expenses totalled \$350.

At this rate, how much am I likely to spend on petrol for the whole year?

a \$840 b \$600 c \$700 d \$940

6 If 80% of a number is 9, what is the number? a 10 b 10.25 c 12.5 d 11.25

7 I have 25 bank notes. Each of them is either a \$10 or \$50 note.

Their total value is \$1050. How many \$10 notes do I have? a 10 b 15 c 5 d 20

8 The volume of a rectangular prism is 48cm^3 and the width is 3 cm.

What are the length and height? a 8cm and 2cm b 4cm and 4cm
c 8cm and 4cm d either answer a or b

9 I travelled in my car for three days.

The average distance that I travelled each day was 175 km.

On the first day I travelled 75 km and on the second day I travelled 183 km.

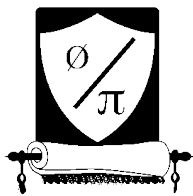
How far did I travel on the third day? a 175 km b 267 km c 275 km d 283 km

10 A large bag of flour weighs 7kg.

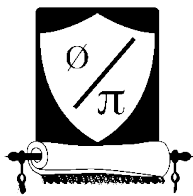
I repack the flour into smaller packets each weighing 400g

How many packets can I fill completely and how much flour is left over?

a 16 packets, 300 g left b 18 packets, 100 g left
c 14 packets, 200 g left d 17 packets, 200 g left

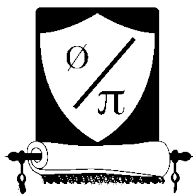


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- 21 How many sixths are there in $5\frac{1}{2}$? a 33 b 31 c 39 d 6
-
- 22 $0.2 \times 10 + 0.2 \times 10 =$ a 40 b 80 c 4 d 0.04
-
- 23 A motorist travels 200 km on the first day of a three-day journey.
Each day after the first, the motorist reduces the distance he travels by 50%.
How far has he travelled after three days? a 450km b 350km c 400km d 300km
-
- 24 A triangle has an area of 49cm^2 . The perpendicular height is 7 cm.
What is the length of the base? a 3.5 cm b 7 cm c 14 cm d 21 cm
-
- 25 The area of a large field is 4.5 hectares.
The length of one side of the field measures 100m.
What is the length of the other side? a 45 m b 4500 m c 50 m d 450 m
-
- 26 Cashews cost \$21.20 per kilogram.
How much would it cost me to purchase 750 g of cashews?
a \$15.90 b \$10.60 c \$20.00 d \$5.30
-
- 27 The circumference of a circle measures 18.84 cm. What is the diameter?
a 3 cm b 6 cm c 6.5 cm d 10 cm
-
- 28 On a school excursion, Dan spent \$5 on souvenirs, \$2.30 on drinks and \$3.70 on snack food. What fraction of this total money was spent on souvenirs?
a $\frac{5}{12}$ b $\frac{5}{10}$ c $\frac{1}{2}$ d $\frac{5}{11}$
-
- 29 Six workers take 96 days to complete a job.
How long will it take 4 workers to do the same job? a 64 days b 144 days
c 128 days d 112 days
-
- 30 On a four-hour journey, a train averaged 80 km an hour for the first two hours and then 95 km per hour for the final two hours.
What was its average speed for the whole journey?
a 87.5 km/hr b 82.5 km/hr c 90 km/hr d 92.5 km/hr
-

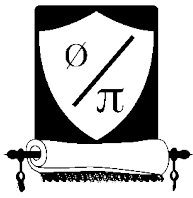


- 31 How many quarters are there in $6\frac{1}{2}$? a 22 b 30 c 26 d 24
- 32 $0.04 \times 10 + 0.04 \times 10 =$ a 0.8 b 0.08 c 0.6 d 8
- 33 A motorist travels 240 km on the first day of a four-day journey.
Each day after the first the motorist reduces the distance he travels by 50%.
How far has he travelled after four days?
a 1000 km b 375 km c 437.5 km d 450 km
- 34 A triangle has an area of 84 cm^2 . The perpendicular height is 7cm.
What is the length of the base? a 10 cm b 24 cm c 12 cm d 7 cm
- 35 The area of a large field is 3.75 hectares.
The length of one side of the field measures 50 m.
What is the length of the other side? a 375 m b 500 m c 750 m d 850 m
- 36 Atlantic salmon costs \$19.20 per kilogram.
What does it cost me to buy 1.25 kg of salmon?
a \$24 b \$ 23.40 c \$ 28.80 d \$25
- 37 The circumference of a circle measures 17.27 cm. What is the diameter?
a 6.5 cm b 5.5 cm c 8 cm d 4.75 cm
- 38 On a shopping trip, I spent \$6.30 on train fares, \$36 at Big W and \$5.70 on lunch.
Out of the total amount that I spent, what fraction did I spend at Big W?
a $\frac{5}{8}$ b $\frac{11}{12}$ c $\frac{5}{6}$ d $\frac{3}{4}$
- 39 It takes 8 workers 72 days to complete a job.
How long will it take 10 workers to complete the same job?
a 60 days b 48 days c 57.6 days d 65 days
- 40 On a five-hour journey, a train averaged 105 km an hour for the first two hours and then averaged 110 km per hour for the final three hours.
What was its average speed for the whole journey?
a 107.5 km/hr b 108 km/hr c 109 km/hr d 106.25 km/hr

----- This is the End of Test MA-06 -----



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|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|
| 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