2.2 Using a Calculator: 1-hour Pack

EDEXCEL 1MA1 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 6.4 + 3.75.

(Total for Question 1 is 1 mark)

2 Work out 12 x 0.8.

(Total for Question 2 is 1 mark)

3 Work out 4^3 - 20.

(Total for Question 3 is 1 mark)

4 Work out 30% of 140 using the percentage key on your calculator.

(Total for Question 4 is 1 mark)

5 Work out the value of 2.5^3 x 4

(Total for Question 5 is 3 marks)

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6 Work out the value of $(5.6 + 3.4)/(2.5 - 0.7)$

(Total for Question 6 is 3 marks)

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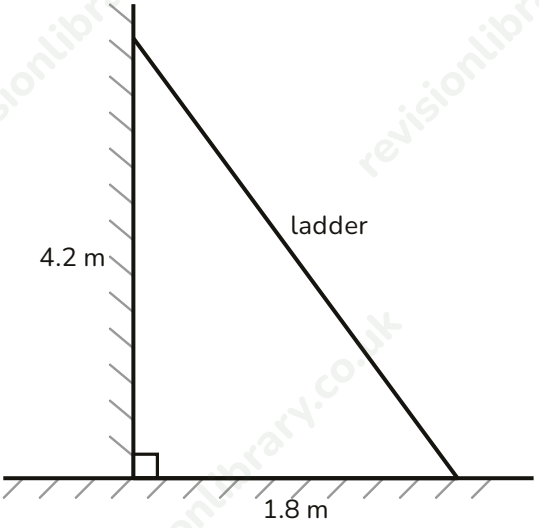
7 Use your calculator to work out $\sqrt{40}/3$. Give your answer correct to 2 decimal places.

(Total for Question 7 is 3 marks)

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8 A ladder leans against a vertical wall. The foot of the ladder is 1.8 m from the wall. The ladder reaches 4.2 m up the wall. Work out the length of the ladder. Give your answer correct to 1 decimal place.

Diagram NOT accurately drawn



(Total for Question 8 is 3 marks)

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9 Work out 1/2.3 + 1/3. Give your answer correct to 3 significant figures.

(Total for Question 9 is 2 marks)

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10 Work out 6.9 x $\sqrt{76}$. Give your answer correct to 3 significant figures.

(Total for Question 10 is 2 marks)

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11 Use your calculator to work out the value of 5.2 x 7.3 + 3.8 x 6.4. Write down all the figures on your calculator display, then give your answer correct to 4 significant figures.

(Total for Question 11 is 2 marks)

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12 Use your calculator to work out the value of 4.2 x 7.1 + 4.2 x 3.5. Write down all the figures on your calculator display, then give your answer correct to 3 significant figures.

(Total for Question 12 is 2 marks)

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13 Use your calculator to work out the value of (1.3 + 8.3) / (4.2 - 5.3). Write down all the figures on your calculator display, then give your answer correct to 3 significant figures.

(Total for Question 13 is 2 marks)

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14 Work out (cube root of 98) + 9.8. Give your answer correct to 3 significant figures.

(Total for Question 14 is 2 marks)

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15 Use your calculator to work out the value of (6.3 + 8.2) / (7.2 - 3.9). Write down all the figures on your calculator display, then give your answer correct to 2 significant figures.

(Total for Question 15 is 2 marks)

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16 Use your calculator to work out the value of (7.3 + 3.5) / (3.3 - 6.2). Write down all the figures on your calculator display, then give your answer correct to 3 significant figures.

(Total for Question 16 is 2 marks)

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17 Work out 4.2 x $\sqrt{79}$. Give your answer correct to 3 significant figures.

(Total for Question 17 is 2 marks)

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18 Use your calculator to work out the value of (8 + 8.9) / (9.8 - 3.2). Write down all the figures on your calculator display, then give your answer correct to 3 significant figures.

(Total for Question 18 is 2 marks)

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19 Work out (cube root of 74) + 8.3. Give your answer correct to 3 significant figures.

(Total for Question 19 is 2 marks)

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20 Use your calculator to work out the value of (9.4 + 1.9) / (9.1 - 1.8). Write down all the figures on your calculator display, then give your answer correct to 3 significant figures.

(Total for Question 20 is 2 marks)

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21 Work out 1/4.8 + 1/4. Give your answer correct to 3 significant figures.

(Total for Question 21 is 2 marks)

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22 A gym offers two membership plans. Plan A: £28 per month, no joining fee. Plan B: £45 joining fee, then £19 per month. Work out which plan is cheaper for 8 months of membership. You must show working.

(Total for Question 22 is 4 marks)

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Mark scheme · 2.2 Using a Calculator: 1-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

10.15 cao	**B1**

Answer: 10.15

Question 2

9.6 cao	**B1**

Answer: 9.6

Question 3

44 cao	**B1**

Answer: 44

Question 4

42 cao	**B1**

Answer: 42

Question 5

$2.5^3 = 15.625$ seen	**M1**
15.625 x 4 (ft) seen	**M1**
62.5 cao	**A1**

Answer: 62.5

Question 6

9 (5.6 + 3.4) seen	**M1**
1.8 (2.5 - 0.7) seen	**M1**
5 cao	**A1**

Answer: 5

Question 7

awrt 6.32 for $\sqrt{40}$ seen	**M1**
6.32.../3 (awrt 2.10...) seen	**M1**
2.11 cao (2 dp)	**A1**

Answer: 2.11

Question 8

$1.8^2 + 4.2^2$ (= 20.88), or 3.24 and 17.64 both seen	**M1**
$\sqrt{20.88}$ seen	**M1**
awrt 4.6 (m)	**A1**

Answer: 4.6 m

Question 9

0.76812 or better seen	**M1**
0.768 cao	**A1**

Answer: 0.768

Question 10

60.153 or better seen	**M1**
60.2 cao	**A1**

Answer: 60.2

Question 11

62.28 or better seen	**B1**
62.28 cao	**B1**

Answer: 62.28

Question 12

44.52 or better seen	**B1**
44.5 cao	**B1**

Answer: 44.5

Question 13

-8.72727 or better seen	**B1**
-8.73 cao	**B1**

Answer: -8.73

Question 14

14.41 or better seen	**M1**
14.4 cao	**A1**

Answer: 14.4

Question 15

4.39394 or better seen	**B1**
4.4 cao	**B1**

Answer: 4.4

Question 16

-3.72414 or better seen	**B1**
-3.72 cao	**B1**

Answer: -3.72

Question 17

37.33 or better seen	**M1**
37.3 cao	**A1**

Answer: 37.3

Question 18

2.56061 or better seen	**B1**
2.56 cao	**B1**

Answer: 2.56

Question 19

12.498 or better seen	**M1**
12.5 cao	**A1**

Answer: 12.5

Question 20

1.54795 or better seen	**B1**
1.55 cao	**B1**

Answer: 1.55

Question 21

0.45833 or better seen	**M1**
0.458 cao	**A1**

Answer: 0.458

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Question 22

28 x 8 (= 224) seen	**M1**
45 + 19 x 8 (= 197) seen, or correct process for Plan B total	**M1**
224 and 197 both correct, with correct numerical comparison shown (197 < 224)	**A1**
correct conclusion with reason: Plan B, since it costs less over 8 months, oe	**C1**

Answer: Plan B (£197) is cheaper than Plan A (£224) for 8 months

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