# Edexcel Foundation, 1-Mark Question Practice.

**1**

| | | |
|---|---|---|
| a | Change 783 cm into metres. | 7.83 m |
| b | Change 5.2 kg into grams. | 5200 g |
| c | Convert 3.2 km into metres | 3200 m |
| d | Write 9200 mm in metres | 9.2 m |
| e | Convert 8350 g into kilogrammes | 8.35 kg |

**2**

| | | |
|---|---|---|
| a | Work out $3 + 8 \times 10$ | 83 |
| b | Calculate 2 x 5 – 3 x 3 | 1 |
| c | Work out 5 x (3 + 7) | 50 |
| d | Add brackets to make this true,<br>4 x 7 – 3 + 5 = 21 | 4 x (7 – 3) + 5 = 21 |
| e | Joe says 13 – 3 x 5 = 50. This is wrong.<br>What should the answer be? | -2 |

**3**

| | | |
|---|---|---|
| a | Solve $\frac{x}{4} = 3.5$ | 14 |
| b | Solve $3x = 21$ | 7 |
| c | Find the value of x, $\frac{x}{2} - 7 = 5$ | 24 |
| d | Solve $8x - 9 = 39$ | 6 |
| e | Solve $x - 6 = \frac{x}{2} + 7$ | 26 |

**4**

| | | |
|---|---|---|
| a | Write $\frac{9}{100}$ as a decimal | 0.09 |
| b | Write 0.3 as a fraction | 3/10 |
| c | Write 37% as a decimal | 0.37 |
| d | Write 41% as a fraction | 41/100 |
| e | Write 0.73 as a fraction | 73/100 |

**5**

| | | |
|---|---|---|
| a | Here are the first four terms of a number sequence.<br>1 4 13 40<br>The rule to continue this sequence is multiply the previous term by 3 and then add 1<br>Work out the 5th term of this sequence. | 121 |
| b | Here are the first four terms of a number sequence.<br>5 7 11 19<br>The rule to continue this sequence is multiply the previous term by 2 and then subtract 3<br>Work out the 5th term of this sequence. | 35 |
| c | Here are the first four terms of a number sequence.<br>3 2 10 24<br>The rule to continue this sequence is add the two previous numbers then multiply by 2<br>Work out the 5th term of this sequence. | 68 |
| d | The table shows the 2nd, 3rd and 4th terms of a sequence.<br>\| | 11 \| 35 \| 107 \|<br>The rule is multiply the previous term by 3 then add 2.<br>Work out the 1st term | 3 |
| e | Here are the first four terms in a sequence<br>2 7 17 37<br>Write down the rule | Multiply by 2 than add 3 |

**6**

| | | |
|---|---|---|
| a | Write down a multiple of 8 that is between 50 and 60. | 56 |
| b | Write down the two multiples of 7 that are between 40 and 50. | 42 and 49 |
| c | Write down any two factors of 18. | Any two of 1, 2, 3, 6, 9, 18 |
| d | List all the factors of 15 | 1, 3, 5, 15 |
| e | Express 20 as a product of prime factors | 2 x 2 x 5 |

**7**

| | | |
|---|---|---|
| a | Simplify $2p \times 7q$ | 14pq |
| b | Simplify $k \times k$ | $k^2$ |
| c | Simplify $\frac{4h+6h}{2}$ | 5h |
| d | Simplify $3r \times 5s \times 10t$ | 150rst |
| e | Simplify $3m \times 2m$ | $6m^2$ |

**8**

| | | |
|---|---|---|
| a | Write 5472 correct to the nearest 1000 | 5000 |
| b | Write 257 correct to the nearest 100 | 300 |
| c | Write 7658 correct to the nearest 10 | 7660 |
| d | Calculate 2 x 1530.<br>Write your answer to nearest 1000 | (3060) 3000 |
| e | Work out 3 x 420<br>Write your answer to the nearest 100 | (1260) 1300 |

**9**

| | | |
|---|---|---|
| a | Simplify $x + 5x - 3x$ | 3x |
| b | Simplify $2y - 7y + 3y$ | -2y |
| c | Simplify $3x + 5y - x + 4y$ | 2x + 9y |
| d | Simplify $4m + 5n - 7m - 9n$ | -3m – 4n |
| e | Simplify $3p + 8p - q - 5p$ | 6p - q |

**10**

| | | |
|---|---|---|
| a | Write the following numbers in order of size.<br>Start with the smallest number.<br>0.6 0.04 0.39 0.172 0.4 | 0.04, 0.172, 0.39, 0.4, 0.6 |
| b | Write the following numbers in order of size.<br>Start with the smallest number.<br>0.3 0.03 0.303 0.33 3.3 | 0.03, 0.3, 0.303, 0.33, 3.3 |
| c | Write the following numbers in order of size.<br>Start with the smallest number.<br>0.1 3/10 27/100 0.25 0.8 | 0.1, 0.25, 27/100, 3/10, 0.8 |
| d | Which is biggest 0.4 or 37/100? | 0.4 |
| e | Which is biggest 231/1000 or 0.2? | 231/1000 |

**11**

| | | |
|---|---|---|
| a | Write down the value of the 2 in the number 825.7 | 20 |
| b | Write down the value of the 9 in the number 79364 | 9000 |
| c | Write down the value of the 6 in the number 5.632 | 6/10 |
| d | Write down the value of the 5 in the number 1357234 | 50000 |
| e | Write down the value of the 7 in the number 0.376 | 7/100 |

**12**

| | | |
|---|---|---|
| a | Write down a square number that is also an even number. | E.g. 4, 16, 36… |
| b | Find the two square numbers that add to give 41 | 25 and 16 |
| c | When you multiply an odd number by an even number the result is:<br>A. Odd \| B. Even \| C. Either | B. Even |
| d | Write down the three square numbers between 40 and 90 | 49, 64, 81 |
| e | Which is biggest $2^5$ or $5^2$? | $2^5$ (32) or (25) |

**13**

| | | |
|---|---|---|
| a | Calculate 3 cubed | 27 |
| b | Work out the cube root of 64 | 4 |
| c | Which is biggest 2 cubed or the cube root of 125? | $2^3$ (8) or (5) |
| d | Add $\sqrt[3]{1000}$ to $\sqrt{81}$ | 19 |
| e | Work out $\sqrt[3]{27} \times \sqrt[3]{8}$ | 6 |

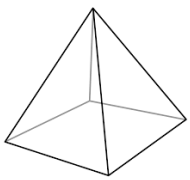
**14**

| | | |
|---|---|---|
| a | Find $\sqrt{1.96}$ | 1.4 |
| b | Work out $\sqrt{57.76}$ | 7.6 |
| c | Calculate $\sqrt{756.25}$ | 27.5 |
| d | Work out $\sqrt{36} + \sqrt{2.25}$ | 7.5 |
| e | Calculate $\sqrt{81} - \sqrt{5.76}$ | 6.6 |

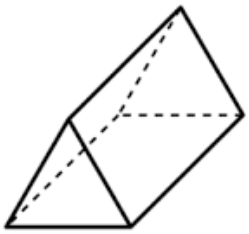
**15**

| | | |
|---|---|---|
| a | Work out $\frac{1}{5}$ $of$ $120$ | 24 |
| b | Find $\frac{1}{7}$ $of$ $140$ | 20 |
| c | Calculate $\frac{1}{3}$ $of$ $105$ | 35 |
| d | Find $\frac{1}{9}$ $of$ $108$ | 12 |
| e | Which is biggest $\frac{1}{4}$ $of$ $164$ or $\frac{1}{3}$ $of$ $126$ | (41) or (42) so $\frac{1}{3}$ $of$ $126$ is biggest |

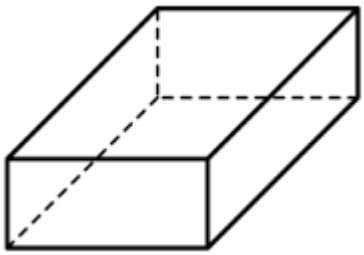
**16**

| | | |
|---|---|---|
| a | Name this shape  | (Square-based) Pyramid |
| b | How many **faces** does the shape (a) have? | 5 |
| c | How many **edges** does the shape (a) have? | 8 |
| d | How many **vertices** does the shape (a) have? | 5 |
| e | Check that **faces** + **vertices** – **edges** = 2<br>(**F + V – E = 2** 'Euler's Formula) | 5+ 5 – 8 = 2 ✓ |

**17**

| | | |
|---|---|---|
| a | Name this shape  | Triangular Prism |
| b | How many **faces** does the shape (a) have? | 5 |
| c | How many **edges** does the shape (a) have? | 9 |
| d | How many **vertices** does the shape (a) have? | 6 |
| e | Check **F + V – E = 2** | 5 + 6 – 9 = 2 ✓ |

**18**

| | | |
|---|---|---|
| a | Name this shape  | Cuboid |
| b | How many **faces** does the shape (a) have? | 6 |
| c | How many **edges** does the shape (a) have? | 12 |
| d | How many **vertices** does the shape (a) have? | 8 |
| e | Check that **faces** + **vertices** – **edges** = 2<br>(**F + V – E = 2** 'Euler's Formula) | 6 + 8 – 12 = 2 ✓ |

**19**

| | | |
|---|---|---|
| a | Tim is *t* years old. His sister Sarah is 3 years older. Write an expression for Sarah's age. | $t+3$ |
| b | Harriet is *h* years old. Her brother Bob is 5 years younger. Write an expression for Bob's age | $h-5$ |
| c | Connie is *c* years old. Her brother Will is twice as old. Write an expression for Will's age. | $2c$ |
| d | Paul is *p* year's old. Lucy is 2 years older than Paul. Alex is twice as old as Lucy.<br>Write an expression for Alex's age | $2(p + 2)$ or $2p + 4$ |
| e | Max is *m* year's old. Alice is 3 years younger than Max. Jean is three times as old as Alice.<br>Write an expression for Jean's age. | $3(m - 3)$ or $3m - 9$ |

**20**

| | | |
|---|---|---|
| a | Work out the value of $10^4$ | 10000 |
| b | Calculate $3^4$ | 81 |
| c | Find $5^3$ | 125 |
| d | Which is biggest $3^2$ or $2^3$? | (9) or (8) so $3^2$ |
| e | Which is biggest $2^4$ or $4^2$? | (16) or (16) so the same! |

**21**

| | | |
|---|---|---|
| a | Write 8.37562 correct to 3 decimal places. | 8.376 |
| b | Write 6.0423 correct to 3 decimal places. | 6.042 |
| c | Round 10.635 to 2 decimal places. | 10.64 |
| d | Round 17.3446 to 2 decimal places | 17.34 |
| e | Round 5.397 to 2 decimal places | 5.40 |

**22**

| | | |
|---|---|---|
| a | Write 67.89 correct to one significant figure | 70 |
| b | Write 38.27 correct to 3 significant figures | 38.3 |
| c | Write 2.749 correct to 1 significant figure. | 2.7 |
| d | Write 0.00568 correct to 2 significant figures | 0.0057 |
| e | Write 592465 correct to 2 significant figures | 590000 |

**23**

| | | |
|---|---|---|
| a | How many $cm^3$ in 1 $m^3$? | 1 000 000 |
| b | How many $mm^3$ in 1$cm^3$? | 1000 |
| c | How many $mm^3$ in 2$m^3$? | 2 000 000 000 |
| d | How many $cm^2$ in 3 $m^2$? | 30 000 |
| e | How many $m^2$ in a $km^2$ | 1 000 000 |

**24**

| | | |
|---|---|---|
| a | Which of these fractions is **not** equivalent to $\frac{1}{3}$?<br>$\frac{11}{33}$ $\frac{15}{45}$ $\frac{3}{30}$ $\frac{9}{27}$ | $\frac{3}{30}$ |
| b | Which of these fractions is **not** equivalent to $\frac{1}{5}$?<br>$\frac{7}{35}$ $\frac{9}{45}$ $\frac{20}{100}$ $\frac{15}{55}$ | $\frac{15}{55}$ |
| c | Which **two** of these fractions **are** equivalent to $\frac{1}{4}$?<br>$\frac{14}{44}$ $\frac{8}{32}$ $\frac{17}{68}$ $\frac{4}{14}$ | $\frac{8}{32}$ and $\frac{17}{68}$ |
| d | Which fraction is biggest?<br>$\frac{3}{5}$ $\frac{13}{20}$ | $\frac{13}{20}$ |
| e | Which fraction is biggest?<br>$\frac{5}{8}$ $\frac{13}{24}$ | $\frac{5}{8}$ |

**25**

| | | |
|---|---|---|
| a | Here are 4-digits<br>3 8 5 2<br>Use these digits to write down the largest possible 4-digit number. | 8532 |
| b | Use 3 of the digits in (a) to write down the smallest possible 3-digit number. | 235 |
| c | Use 3 of the digits in (a) to write down the smallest possible 3-digit even number. | 238 |
| d | Use 3 of the digits in (a) to write down the largest possible 3-digit number that rounds to 400. | 385 |
| e | Use 3 of the digits in (a) to write down any 3-digit number that divides by 3. | 258 or 285 or 528 or 582 or 828 or 852<br>(8+5+2 = 15 which divides by 3 so all 3-digit numbers made from them divide by 3) |

**26**

| | | |
|---|---|---|
| a | Write 240 minutes in hours | 4 hrs |
| b | Write 140 minutes in hours and minutes. | 2hrs 20 mins |
| c | Write 3 ½ hours in minutes. | 210 mins |
| d | Write 3.25 hours in hours and minutes. | 3 hrs 15 mins |
| e | Write 2.75 hours in hours and minutes | 2 hrs 45 mins |

**27**

| | | |
|---|---|---|
| a | Write down the number that is exactly half way between 5 and 11 | 8 |
| b | Write down the number that is exactly half way between 23 and 41 | 32 |
| c | Write down the number that is exactly half way between 17 and 22 | 19.5 |
| d | Write down the number that is exactly half way between 52 and 63 | 57.5 |
| e | Write down the number that is exactly half way between 7.5 and 19.5 | 13.5 |