**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 × 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,  4 x 7 – 3 + 5 = 21 | 4 x (7 – 3) + 5 = 21 |
| e | Joe says 13 – 3 x 5 = 50. This is wrong.  What should the answer be? | -2 |

**3**

|  |  |  |
| --- | --- | --- |
| a | Solve | 14 |
| b | Solve | 7 |
| c | Find the value of x, | 24 |
| d | Solve 8 | 6 |
| e | Solve | 26 |

**4**

|  |  |  |
| --- | --- | --- |
| a | Write 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.   |  |  |  |  | | --- | --- | --- | --- | | 1 | 4 | 13 | 40 |   The rule to continue this sequence is multiply the previous term by 3 and then add 1  Work out the 5th term of this sequence. | 121 |
| b | Here are the first four terms of a number sequence.   |  |  |  |  | | --- | --- | --- | --- | | 5 | 7 | 11 | 19 |   The rule to continue this sequence is multiply the previous term by 2 and then subtract 3  Work out the 5th term of this sequence. | 35 |
| c | Here are the first four terms of a number sequence.   |  |  |  |  | | --- | --- | --- | --- | | 3 | 2 | 10 | 24 |   The rule to continue this sequence is add the two previous numbers then multiply by 2  Work out the 5th term of this sequence. | 68 |
| d | The table shows the 2nd, 3rd and 4th terms of a sequence.   |  |  |  |  | | --- | --- | --- | --- | |  | 11 | 35 | 107 |   The rule is multiply the previous term by 3 then add 2.  Work out the 1st term | 3 |
| e | Here are the first four terms in a sequence   |  |  |  |  | | --- | --- | --- | --- | | 2 | 7 | 17 | 37 |   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 | 14pq |
| b | Simplify | k2 |
| c | Simplify | 5h |
| d | Simplify | 150rst |
| e | Simplify | 6m2 |

**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.  Write your answer to nearest 1000 | (3060) 3000 |
| e | Work out 3 x 420  Write your answer to the nearest 100 | (1260) 1300 |

**9**

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

**10**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a | Write the following numbers in order of size.  Start with the smallest number.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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.  Start with the smallest number.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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.  Start with the smallest number.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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:   |  |  |  | | --- | --- | --- | | 1. Odd | 1. Even | 1. Either | | B. Even |
| d | Write down the three square numbers between 40 and 90 | 49, 64, 81 |
| e | Which is biggest 25 or 52? | 25 (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? | 23 (8) or (5) |
| d | Add to | 19 |
| e | Work out | 6 |

**14**

|  |  |  |
| --- | --- | --- |
| a | Find | 1.4 |
| b | Work out | 7.6 |
| c | Calculate | 27.5 |
| d | Work out + | 7.5 |
| e | Calculate | 6.6 |

**15**

|  |  |  |
| --- | --- | --- |
| a | Work out | 24 |
| b | Find | 20 |
| c | Calculate | 35 |
| d | Find | 12 |
| e | Which is biggest or | (41) or (42) so is biggest |

**16**

|  |  |  |
| --- | --- | --- |
| a | Name this shape  Image result for solid shapes clipart black and white | (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  (**F + V – E = 2** ‘Euler’s Formula) | 5+ 5 – 8 = 2 🗸 |

**17**

|  |  |  |
| --- | --- | --- |
| a | Name this shape  Image result for solid shapes clipart black and white | 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  Image result for solid shapes clipart black and white | 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  (**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. | 2*c* |
| d | Paul is *p* year’s old. Lucy is 2 years older than Paul. Alex is twice as old as Lucy.  Write an expression for Alex’s age | 2(*p* + 2) or 2*p* + 4 |
| e | Max is *m* year’s old. Alice is 3 years younger than Max. Jean is three times as old as Alice.  Write an expression for Jean’s age. | 3(*m* - 3) or 3*m* - 9 |

**20**

|  |  |  |
| --- | --- | --- |
| a | Work out the value of 104 | 10000 |
| b | Calculate 34 | 81 |
| c | Find 53 | 125 |
| d | Which is biggest 32 or 23? | (9) or (8) so 32 |
| e | Which is biggest 24 or 42? | (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 cm3 in 1 m3? | 1 000 000 |
| b | How many mm3 in 1cm3? | 1000 |
| c | How many mm3 in 2m3? | 2 000 000 000 |
| d | How many cm2 in 3 m2? | 30 000 |
| e | How many m2 in a km2 | 1 000 000 |

**24**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| a | Which of these fractions is **not** equivalent to ?   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |
| b | Which of these fractions is **not** equivalent to ?   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |
| c | Which **two** of these fractions **are** equivalent to ?   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | and |
| d | Which fraction is biggest?   |  |  | | --- | --- | |  |  | |  |
| e | Which fraction is biggest?   |  |  | | --- | --- | |  |  | |  |

**25**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| a | Here are 4-digits   |  |  |  |  | | --- | --- | --- | --- | | 3 | 8 | 5 | 2 |   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  (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 |