**Year 7 Enhanced Standard: Assessment 3 Revision Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | **Topic 9: Fractions** | **Mark** |
| 1. | a) Convert 30 % into a fraction ………b) Convert 0.45 into a fraction ………c) Convert ¾ into a percentage ………d) Put these numbers in order of size smallest first 35% 0.4 $\frac{3}{5}$ $\frac{3}{4}$ 0.32 …….. ……… ……… ……… ………   | (4)  |
| 2. | Find $\frac{3}{10} $ of £24 ……………… |  (1) |
| 3. | Calculate:a) $\frac{2}{5}+\frac{1}{6}$ b) $\frac{6}{7}-\frac{2}{3}$…………………….……………………. …………………….…………………….c) $\frac{2}{5}×\frac{3}{8}$ d) $\frac{4}{5}÷\frac{9}{10}$…………………….……………………. …………………….……………………. |  (2) (2) |
| 4. | Isobel receives £60 for her birthday.She spends 25% on clothes.She spends $\frac{1}{5}$ on a McDonalds meal.How much has she got left over? ………………………… |  (1) |
|  |  Total  | (10) |

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|  | **Topic 10: Angles** | **Mark** |
| 1. | Find the missing angles and give reasons for your answers.

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| --- | --- |
| 25°a | 205°b |
| a = …………………… | b = …………………… |
| …………………………………………………………………………………………………………………………………………………… | ……………………………………………………………………………………………………………………………………………………d60°85°150° |
| 100°c |  |
| c = …………………… | d = …………………… |
| …………………………………………………………………………………………………………………………………………………… | …………………………………………………………………………………………………………………………………………………… |

 | (4) (4) |
|  | Find the missing angles and give reasons for your answers.dcab115°72°

|  |  |  |
| --- | --- | --- |
| a = …………………… | b = …………………… |  |
| ………………………………………………………………………… | ………………………………………………………………………… |  |
| c = …………………… | d = …………………… |  |
| ………………………………………………………………………… | ………………………………………………………………………… |  |

 | (8) |
| 3. | Calculate the bearing of: a) B from C NNN124°73°ABC ……………… b) C from B ……………… c) B from A ……………… | (3) |
| 4. | What is the sum of the interior angles of a pentagon?  …………………….  | (1) |
|  |  Total  | (20) |

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|  | **Topic 11: Graphs** | **Mark** |
| 1. | a) On the grid draw and label the following   *x = 4*  *y = - 2*

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b) Complete the table and plot the graph of *y = 2x + 1*

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| --- | --- | --- | --- | --- | --- | --- | --- |
| *x* | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| *y* |  |  | -1 |  | 3 |  |  |

 c) What is the gradient of the graph *y = 3x + 4* ?  …………………… d) What is the y intercept of the graph  *y = 2x – 5* ?  ……………………  | (2)(2)(2) |
| 2. | a) Circle the equations which have the same gradient.y = 2x + 3 y = -4x + 3 y = 2x – 1 y = 7x + 1 y = x + 2b) Circle the equations which have the same y intercept.y = 2x + 3 y = -4x + 3 y = 2x – 1 y = 7x + 1 y = x + 2 | (2) |
| 3. | Alice cycles to the shops and back home again. Here is her distance time graph.a) How far has Alice travelled after 2 hours?   …………………….b) What speed is Alice travelling on the way to the shops?  …………………….c) How long does Alice stay at the shops? ……………………. | (4) |
|  |  Total  | (12) |

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|  | **Topic 12: Statistics** | **Mark** |
| 1. | a) Complete the back to back stem and leaf diagram for the following heights (cm)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Male | 112 | 121 | 123 | 124 | 134 | 135 | 138 | 145 | 160 | 176 | 187 |
| Female | 110 | 112 | 126 | 126 | 129 | 138 | 141 | 145 | 145 | 151 | 153 |

|  |  |  |
| --- | --- | --- |
| Female |  | Male |
|  | 1 1 |  |
|  | 1 2 |  |
|  | 1 3 |  |
|  | 1 4 |  |
|  | 1 5 |  |
|  | 1 6 |  |
|  | 1 7 |  |
|  | 1 8 |  |
| Key: 134 = 4 │1 3 |  | Key: 134 = 1 3 │ 4 |

b) What is the range of the Male heights? ……………………c) What is the mode of the Female heights? ……………………d) What is the median of the Male heights ? …………………… |   (2)  (3) |
| 2. | Rainfall (cm) in Blackpool and London was measured for 3 months.Construct a suitable chart or diagram so that the data can be compared.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Jan | Feb | March |
| Blackpool | 15 | 5 | 12 |
| London | 8 | 9 | 14 |

 |    (3) |
| 3. | Mrs Leake decides to open an ice cream shop and lists how many of each she sells one day. a) Complete this table

|  |  |  |
| --- | --- | --- |
| **Type** | **Frequency** | **Angle** |
| Cornetto | 8 |  |
| 99 | 15 |  |
| Ice lolly | 9 |  |
| Choc Ice | 4 |  |
| **Total** |  |  |

b) Draw a pie chart of these results.  | (2) |
|  |  Total  | (10) |