**Year 7 Foundation: Assessment 3 Revision Homework (Non-Calculator) Name \_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
|  | **Topic 9: Fractions, decimals and percentages**  |  |
| **1.** | Simplify these fractions fully:a) $ \frac{6}{10}$ = ……………………… b) $\frac{12}{15}$ = ……………………… c) $\frac{4}{12}$ = ……………………… d) $\frac{18}{30}$ = ………………………  | 4 |
| **2.** | Complete this table:

|  |  |  |
| --- | --- | --- |
| **Fraction** | **Decimal** | **Percentage** |
| $\frac{1}{2}$  |  |  |
|  | 0.25 |  |
|  |  | 80% |
| $$\frac{3}{10}$$ |  |  |

 | 4 |
| **3.** | Find the following fractions of amounts:1. $\frac{1}{10}$ of £40 = ……………………… b) $\frac{1}{4}$ of £24 = ………………………
 | 2 |
| **4.** | Calculate the following and write your answers in their simplest form:1. $\frac{1}{10}$ + $\frac{7}{10}$ = ……………………… = …………
2. $\frac{5}{6}$ - $\frac{2}{6}$ = ……………………… = …………

  | 2 |
|  |  | **12** |
|  | **Topic 10: Angles** |  |
| **1.** | a) Write down the mathematical name for these quadrilaterals.  ……………………………………………… ………………………………………………b) What type of angle is this? ………………………………………………  | 3 |
| **2.** | *LMN* is a straight line. Work out the value of angle *x*. *x* = ………………………  o | 1 |
| **3.** | a) Write down the special name  for this quadrilateral. ………………………………………………b) Write down the special name  for type of angle marked *y*.  ………………………………………………b) Measure the size of the angle marked *x*. ……………………… ° | 3 |
| **4.**  | *ABC* is a straight line. Work out the size of angle *x.*………………………o  | 2 |
| **5.** | Calculate the size of the angle marked *x*.130°110°*x*° ………………………° | 1 |
|  |  | 10 |
|  | **Topic 11: Graphs**  |  |
| **1.** | a) Write down the coordinates of:point A (…………… , ………….)point *B* (…………… , ………….)b) On the grid, mark the points (6, 4) with the letter *P.*(3, 0) with the letter *Q.* | 4 |
| **2.** | a) Write down the coordinates of:point *P* (.......... , ..........)point *Q* (.......... , ..........)Qb) On the grid, plot the points  (0, 3) label the point *R*. (–2, –3) label the point *S*. | 4 |
| **3.** | Pete visited his friend and then returned home.a) Write down the time that Pete started his journey. ………………………At 2.30 pm Pete stopped for a rest.b) Find his distance from home when he stopped for a rest. ………………………kmc) How many minutes was this rest? ……………………… min | 3 |
| **4.** | The conversion graph can be used to change between pounds (£) and Euros (€).Use the graph to change: £30 to Euros €…………16 Euros to £ £ ………£100 into Euros € ………200 Euros to £ £ ……… | 4 |
|  |  | 15 |
|  |  |  |
|  | **Topic 12: Statistics**  |  |
| 1. | The graph shows the number of ice creams sold each day during one week 1. How many more ice creams were sold on Tuesday than on Monday?

 ……………………… ice creams1. Explain what might have happened on Monday

…………………………………………………………………………………………………………………………………………… | 21 |
| 2. | Daniel carried out a survey of his friends’ favourite flavour of crisps.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Plain | Chicken | Beef | Bacon | Plain | Bacon |
| Plain | Chicken | Plain | Beef | Plain | Chicken |
| Beef | Bacon | Plain | Bacon | Beef | Bacon |

1. Complete the table to show Daniel’s results.

|  |  |  |
| --- | --- | --- |
| **Flavour of crisps** | **Tally** | **Frequency** |
| Plain |  |  |
| Chicken |  |  |
| Beef |  |  |
| Bacon |  |  |

b) How many of Daniel’s friends favourite flavour was beef? ………………………c) Which was the favourite flavour of mode? ……………………… | 211 |
| 3. | a) Write down the number of apples bought. ………………………b) Write down the number of oranges bought. ………………………Sid buys 12 peaches.c) Use this information to complete the pictogram. | 3 |
|  |  | 10 |