**Year 8 Foundation: Assessment 3 Revision Homework (Non-Calc) Name \_\_\_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- | --- |
|  | **Topic 9: Fractions, decimals and percentages** | Mark |
| 1. | Simplify the fractions fully.a) $\frac{4}{8}$ = ………………… c) $\frac{12}{18}$ = ………………… b) $\frac{10}{15}$ = ………………… d) $\frac{15}{21}$ = …………………  | 4 |
| 2. | Match the fraction and decimal equivalents.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$\frac{1}{2}$$ | $$\frac{3}{4}$$ | $$\frac{1}{10}$$ | $$\frac{7}{10}$$ | $$\frac{1}{4}$$ |
|  |  |  |  |  |
| 0.7 | 0.25  | 0.1 | 0.5 | 0.75 |

 |  3 |
| 3. | Convert the percentages to fractions. Leave your answer in its simplest form.50% = $\frac{……}{100}$ = ……… 20% = ……… = ……… 15% = ……… = ……… | 3 |
| 4. | Calculate:1. $\frac{1}{2}$ of 18 = ……… b) $\frac{1}{4}$ of 24 = ………

c) $\frac{2}{5}$ x 25 = ……… d) $\frac{3}{7}$ of 21 = ………  | 4 |
| 5. | Calculate, leaving your answer in its simplest form:1. $\frac{2}{5}+\frac{1}{5}=$ ……… b) $\frac{7}{10}-\frac{3}{10}=$ ………

c) $\frac{4}{9}+\frac{2}{9}=$ ……… d) $\frac{4}{5}-\frac{1}{10}=$ ………  | 4 |
| 6. | Sally has 24 sweets.She gives ¼ of her sweets to Jamie.How many sweets does she have left?……………… | 2 |
|  |  | 20 |
|  | **Topic 10: 2D shapes and angles** | Mark |
| 1. | Fill in the missing directions on the compass.NorthNorth-west……………………………………South-east…………………East………………… | 4 |
| 2. | Name the types of angles:…………………… ……………………… ……………………… | 3 |
| 3. | Connor has drawn a triangle.The triangle has 3 sides of the same length and 3 equal angles.What type of triangle did Connor draw?……………………… | 1 |
| 4. | Calculate the size of the missing angles: d 135°ba120°50°c a = ………… b = ………… c = ………… d = ………… | 4 |
| 5. | Name these shapes:  ………………………… ………………………… ………………………… | 3 |
|  |  | 15 |
|  |  |  |
|  | **Topic 11: Linear graphs** | Mark |
| 1. | On the axes, mark the following coordinates:(-2, 3), (3, 2), (-2, -1), (3, -1)Join the co-ordinates together.What shape have you made? …………………………… | 5 |
| 2. | The line x = 4 is shown on the diagram.x = 41. Is x = 4 a horizontal or vertical line?

 ……………………………1. Plot the line y = -3.
2. Plot the line x = -5.
3. Plot the line y = 2.
 | 4 |
| 3. | The graph shows the conversions between °C and °F.Use the graph to convert:1. 70°C = …………………°F
2. 120°F = …………………°C
3. 10°C = …………………°F
 | 3 |
| 4. | Sian goes to Preston. The graph represents her journey to Preston and home again.1. At what time did Sian set off?

……………………1. How far is it from Sian’s house

to Preston?……………………1. How long did she stay in Preston?

…………………… | 3 |
|  |  | 15 |
|  | **Topic 12: Statistical diagrams** | Mark |
| 1. | A band played 20 concerts in five continents.1. Fill in the missing gaps in the frequency table.

|  |  |  |
| --- | --- | --- |
| Continent | Tally | Frequency |
| Africa | l |  |
| Asia | l |  |
| Europe |  | 10 |
| North America | lll |  |
| South America |  | 5 |
|  | Total | 20 |

1. Draw a fully labelled bar chart of this information.

 | 23 |
| 2. | A group of friends went on an activity weekend.They chose the following activities:Biking Karting Biking Karting Archery Horse ridingBiking Archery Karting Archery Horse riding BikingBiking Archery Biking1. Complete the tally and frequency columns in the table.

|  |  |  |
| --- | --- | --- |
| Activity | Tally | Frequency |
| Biking |  |  |
| Karting |  |  |
| Archery |  |  |
| House riding |  |  |

1. Draw a pictogram to show the results. Use the key: = 2 people

|  |  |
| --- | --- |
| Biking |  |
| Karting |  |
| Archery |  |
| House riding |  |

 | 23 |
|  |  | 10 |