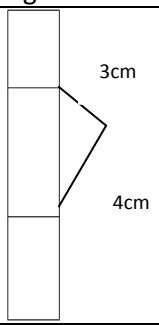
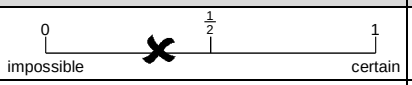
**Yr 8 Level 5 Practice Assessment** **Answers**

| A | Counting and understanding numbers | Answer | Mark |
|---|---|---|---|
| 1 | 3.7 ÷ 100 | 0.037 | 1 |
| 2 | Round the following to one decimal place. | 2.5 5.3 7.2 4.7 3.9 | 2 marks if all correct<br>1 mark if 3 or 4 correct |
| 3 | Complete the sentences using the numbers<br>1 2 3 4 5 | 1(2) is a factor of 2/3/4/5 (4)<br>42 is a multiple of 1/2/3<br>2/3/5 is a prime number<br>1/4 is not a prime number | 2<br>(-1 per error) |
| 4 | Complete these fractions to make each equivalent to $\frac{3}{4}$ | $\frac{6}{8}$ $\frac{9}{12}$ $\frac{12}{16}$ | 1 |
| 5 | Write $\frac{4}{16}$ in its simplest form | $\frac{1}{4}$ | 1 |
| **B** | **Calculating** | | **Mark** |
| 6 | a) ☐ ÷ 22.6 = 7.5 | 169.5 | 1 |
| | b) 50 – (14.24 + 16.36) = | 19.4 | 1 |
| 7 | a) 45% of 80 is ☐ | 36 | 1 |
| | b) 45% of ☐ is 81 | 180 | 1 |
| 8 | Calculate 346 x 23 | 7958 | 2 marks if correct, 1 mark if wrong but method correct |
| 9 | Mark as appropriate | | 2 |
| 10 | How much **cream** does she use? | ¾ litre or 0.75 litre | 1 |
| **C** | **Shape, Space and Measure** | | **Mark** |
| 11 | a) A triangle can have 2 parallel sides<br>A triangle can have 2 perpendicular sides | ✗<br>✓ | 1 |
| | b) A triangle can have 2 acute angles<br>A triangle can have 2 obtuse angles. | ✓<br>✗ | 1 |
| 12 | What order of rotational symmetry does the shape have? | 4 | 1 |
| 13 | How many **grams** of flour are on the scale? | 400 grams | 2 |
| 14 | Draw **accurately**, full size, **ONE** of the missing faces on the diagram below. |  | 2 |
| 15 | Find missing angle in isosceles triangle | $180 – (2x62^0) = 56^0$ | 1 |
| 16 | Draw two more lines to complete the arrowhead **accurately** | Ensure angles are correct size | 2 |
| 17 | Complete the units | 2 metres = 200cm<br>2.5 litres = 2500ml<br>1300 g = 1.3kg | 1 |
| 18 | a) Calculate the perimeter of the shape. | 50 cm | 2 marks if correct, 1 mark if wrong but method correct |
| | b) What is the area of the shape? | $100cm^2$ | 1 |

| D | Data Handling | | Mark |
|---|---|---|---|
| 19 | What is the **probability** that the arrow stops in **sector E**? |   | 1 |
| 20 | a) the **mean** of the **three** numbers is **8** | Any three nos. that add to 24 | 1 |
| | b) the **mode** of the **five** numbers is **12** | Any nos. as long as 12 occurs the most | 1 |
| 21 | Find p(Head)<br>After 30 throws why not 50 heads and 50 tails? | ½<br>~Different outcomes from experiments<br>~Larger no. of trials gives result closer to theoretical probability | 1<br>1(either) |
| 22 | a) **Estimate** the number of **worms** that **Tony** found. | Allow 23 - 25 | 1 |
| | b) Explain how you know. | Tony because he got ¼ of 80 =20 snails whereas Gemma got ½ of 36 = 18 | 1 |