# Foundation Check In – 2.01 Fractions

**For questions 1-5 give your answers in their simplest form and as a mixed number where appropriate.**

1. Work out .
2. Work out .
3. Work out .
4. Work out .
5. Work out .
6. Explain why  is incorrect.
7. Marianne buys pizza for 9 people. Each person eats  of a pizza. Explain why Marianne must buy 8 pizzas.
8. Explain why  gives an answer larger than .
9. Jo’s two cats each eat  tins of cat food each week. How many tins does Jo need to buy for 4 weeks?
10. Caroline has 64 sweets. She gives  to Neil,  to Wim and 12 sweets to Eddie.

What fraction of the sweets does she have left?

**Extension**

Convert the following fractions to decimals. What do you notice?

, , , , , 

Investigate using other denominators.

## Answers

1. 
2. 
3. 
4. 
5. 
6. It should be multiplied by  to give .
7.  so round up to 8 whole pizzas.
8. Dividing by  is the same as multiplying by  or .
9.  so round up to 22 cans.
10. , so the fraction remaining .

**Extension**

0.11… 0.22… 0.33… 0.44… 0.55… 0.66…

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| **Assessment Objective** | **Qu.** | **Topic** | **R** | **A** | **G** |  | **Assessment Objective** | **Qu.** | **Topic** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AO1 | 1 | Divide simple fractions |  |  |  |  | AO1 | 1 | Divide simple fractions |  |  |  |
| AO1 | 2 | Add simple fractions (proper and improper) |  |  |  |  | AO1 | 2 | Add simple fractions (proper and improper) |  |  |  |
| AO1 | 3 | Multiply mixed numbers |  |  |  |  | AO1 | 3 | Multiply mixed numbers |  |  |  |
| AO1 | 4 | Add and subtract fractions in more complex calculations |  |  |  |  | AO1 | 4 | Add and subtract fractions in more complex calculations |  |  |  |
| AO1 | 5 | Multiply and add fractions in more complex calculations |  |  |  |  | AO1 | 5 | Multiply and add fractions in more complex calculations |  |  |  |
| AO2 | 6 | Explain the method for dividing fractions correctly |  |  |  |  | AO2 | 6 | Explain the method for dividing fractions correctly |  |  |  |
| AO2 | 7 | Calculate a fraction of a quantity and interpret the fractional quantity in context |  |  |  |  | AO2 | 7 | Calculate a fraction of a quantity and interpret the fractional quantity in context |  |  |  |
| AO2 | 8 | Interpret a reciprocal or inverse operation |  |  |  |  | AO2 | 8 | Interpret a reciprocal or inverse operation |  |  |  |
| AO3 | 9 | Solve a problem involving fractional quantities |  |  |  |  | AO3 | 9 | Solve a problem involving fractional quantities |  |  |  |
| AO3 | 10 | Solve a contextual problem involving fractions of quantities and expressing one quantity as a fraction of another |  |  |  |  | AO3 | 10 | Solve a contextual problem involving fractions of quantities and expressing one quantity as a fraction of another |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| AO2 | 6 | Explain the method for dividing fractions correctly |  |  |  |  | AO2 | 6 | Explain the method for dividing fractions correctly |  |  |  |
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