**Fractions Unit 1**

**Problem solving and reasoning questions**

True or false? Can you explain your reasoning? This could mean showing your working out.

• A piece of paper folded equally in 3, then folded in half is divided into sixths when you open it out.

• 1/3 of a piece of paper is larger than 2/6 of the same piece.

• Two eighths make a quarter.

• 2/5 of 5 is 2.

• 3/8 of 16 is 5.

Draw a bar model to represent each question:

e.g.

|  |  |  |  |
| --- | --- | --- | --- |
| 16 | | | |
| ¼ | ¼ | ¼ | 1/4 |

3/8 of 32?

4/5 of 40?

5/6 of 42?

Write the answers.

Write < or > or = between these two statements:

3/5 of 40 2/3 of 30

**Fractions Unit 1**

**Problem solving and reasoning: Answers**

True or false?

• A piece of paper folded equally in 3, then folded in half is divided into sixths when you open it out. True.

• 1/3 of a piece of paper is larger than 2/6 of the same piece. False, they are the same since 1/3 and 2/6 are equivalent fractions.

• Two eighths make a quarter. True.

• 2/5 of 5 is 2. True.

• 3/8 of 16 is 5. False it is 6.

Draw a bar model to represent each question:

3/8 of 32? 12.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 32 | | | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

4/5 of 40? 32.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 40 | | | | |
| 8 | 8 | 8 | 8 | 8 |

5/6 of 42? 35.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 42 | | | | | |
| 7 | 7 | 7 | 7 | 7 | 7 |

Write < or > or = between these two statements:

3/5 of 40 > 2/3 of 30

3/5 of 40 = 24 and 2/3 of 30 = 20, so 3/5 of 40 is the greater.