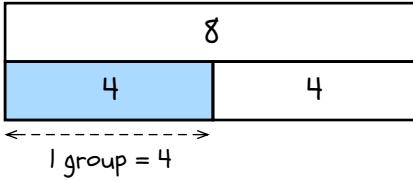
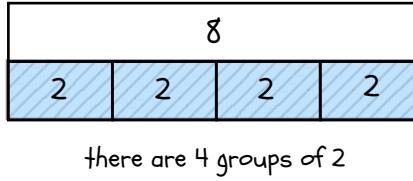
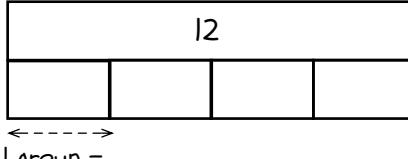
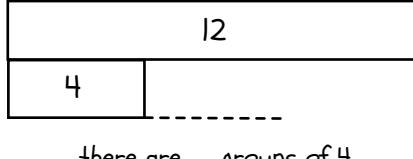
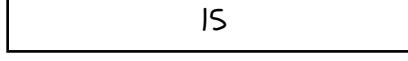
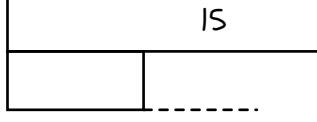


# Division with Decimal Numbers

Task 1 : Use both Methods to calculate the answers to the following Division Problems...

| Division Problem | Method 1   | Method 2   | Answer |
|------------------|--|--|--------|
| $8 \div 2$       | <p>"Share 8 between 2 equal groups"</p>  <p>1 group = 4</p> | <p>"How many groups of 2 make 8"</p>  <p>there are 4 groups of 2</p> | 4      |
| $12 \div 4$      | <p>"Share 12 between 4 equal groups"</p>  <p>1 group =</p>  | <p>"How many groups of 4 make 12"</p>  <p>there are groups of 4</p>  |        |
| $15 \div 5$      |   |   |        |
| $20 \div 4$      |  |  |        |
| $18 \div 6$      |  |  |        |
| $24 \div 3$      |  |  |        |
| $24 \div 4$      |  |  |        |

## Division with Decimal Numbers

Task 2 : Choose either method 1 or method 2 to calculate the answers to the following Division Problems...

| Division Problem | Method 1   | Method 2  | Answer |
|------------------|--|---|--------|
| $0.8 \div 2$     | "Share 0.8 between 2 equal groups"<br><input type="text" value="0.8"/>   | "How many groups of 2 make 0.8"<br><input type="text" value="0.8"/>   |        |
| $1.2 \div 0.4$   | "Share 1.2 between 0.4 equal groups"<br><input type="text" value="1.2"/> | "How many groups of 0.4 make 1.2"<br><input type="text" value="1.2"/> |        |
| $1.5 \div 3$     |  |   |        |
| $1.6 \div 0.4$   |  |   |        |
| $3 \div 0.6$     |  |   |        |
| $0.6 \div 3$     |  |   |        |
| $2.4 \div 0.8$   |  |   |        |

## Division with Decimal Numbers

Task 3 : Investigate your answers and try to make a generalisation to help with the questions below...

| Division Problem | Method 1                          | Method 2                       | Answer |
|------------------|-----------------------------------|--------------------------------|--------|
| $12 \div 4$      | "Share 12 between 4 equal groups" | "How many groups of 4 make 12" |        |
| $1.2 \div 4$     |                                   |                                |        |
| $1.2 \div 0.4$   |                                   |                                |        |
| $0.12 \div 0.04$ |                                   |                                |        |

|                     |                      |                      |
|---------------------|----------------------|----------------------|
| $1.2 \div 4 =$      | $16 \div 2 =$        | $2.4 \div 6 =$       |
| $1.2 \div 0.4 =$    | $16 \div 0.2 =$      | $2.4 \div 0.6 =$     |
| $1.2 \div 0.04 =$   | $16 \div 0.02 =$     | $2.4 \div 0.06 =$    |
| $1.2 \div 0.004 =$  | $16 \div 0.002 =$    | $2.4 \div 0.006 =$   |
| $1.2 \div 0.0004 =$ | $16 \div 0.0002 =$   | $2.4 \div 0.0006 =$  |
| <br>                | <br>                 | <br>                 |
| $5.4 \div 9 =$      | $0.06 \div 3 =$      | $0.14 \div 7 =$      |
| $5.4 \div 0.9 =$    | $0.06 \div 0.3 =$    | $0.14 \div 0.7 =$    |
| $5.4 \div 0.09 =$   | $0.06 \div 0.03 =$   | $0.14 \div 0.07 =$   |
| $5.4 \div 0.009 =$  | $0.06 \div 0.003 =$  | $0.14 \div 0.007 =$  |
| $5.4 \div 0.0009 =$ | $0.06 \div 0.0003 =$ | $0.14 \div 0.0007 =$ |

## Division with Decimal Numbers

Task 4 : Match up the following division problems that have the same answer...

Dividing by Decimals

$$6 \div 0.2$$

$$3.2 \div 0.04$$

$$1.5 \div 0.3$$

$$0.032 \div 0.04$$

$$60 \div 0.02$$

$$1.5 \div 0.003$$

$$0.6 \div 0.2$$

$$0.015 \div 0.03$$

$$15 \div 0.3$$

$$0.6 \div 0.002$$

$$0.032 \div 0.004$$

Dividing by Whole Numbers

$$3200 \div 4$$

$$1500 \div 3$$

$$60 \div 2$$

$$320 \div 4$$

$$32 \div 4$$

$$3.2 \div 4$$

$$32 \div 4$$

$$6 \div 2$$

$$1.5 \div 3$$

$$600 \div 2$$

$$15 \div 3$$