

Name: Date:

Use your knowledge of fractions to help you to answer the following questions.

1. Sarah and Jack go shopping. Jack spends 20% of his money and Sarah spends $\frac{1}{4}$ of her money. Who spends more?
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2. Use the greater than, less than or equal to symbols (\leq , \geq , $=$) to compare these fractions, percentages and decimals.

\leq , \geq or $=$		
$\frac{2}{4}$		25%
$\frac{1}{3}$		$\frac{2}{9}$
$\frac{2}{5}$		$\frac{6}{10}$
$\frac{1}{2}$		0.5

3. Convert these improper fractions to mixed numbers.

Improper fraction	Mixed number
$\frac{9}{6}$	
$\frac{5}{3}$	
$\frac{12}{7}$	
$\frac{15}{4}$	

4. Complete these:

300g = kg = $\frac{1}{4}$ kg

500g = kg $\frac{3}{4}$ kg =

5. Solve the following sums. Write the answers as both an improper fraction and mixed number.

$\frac{2}{5} + \frac{4}{5} =$ $\frac{10}{7} - \frac{2}{7} =$

$\frac{2}{4} + \frac{3}{4} =$ $\frac{13}{10} - \frac{1}{10} =$

6. Solve the following sums. Write the answers as both an improper fraction and mixed number.

$\frac{3}{4} \times 6 =$ $\frac{1}{2} \times 7 =$

$\frac{2}{5} \times 8 =$ $\frac{3}{10} \times 5 =$

Answers

1. Sarah and Jack go shopping. Jack spends 20% of his money and Sarah spends $\frac{1}{4}$ of her money. Who spends more?

Sarah, as $\frac{1}{4}$ is equal to 25%.

2. Use the greater than, less than or equal to symbols (\leq , \geq , $=$) to compare these fractions, percentages and decimals.

\leq , \geq or $=$		
$\frac{2}{4}$	\geq	25%
$\frac{1}{3}$	\geq	$\frac{2}{9}$
$\frac{2}{5}$	\leq	$\frac{6}{10}$
$\frac{1}{2}$	$=$	0.5

3. Convert these improper fractions to mixed numbers.

Improper fraction	Mixed number
$\frac{9}{6}$	$1\frac{3}{6} = 1\frac{1}{2}$
$\frac{5}{3}$	$1\frac{2}{3}$
$\frac{12}{7}$	$1\frac{5}{7}$
$\frac{15}{4}$	$3\frac{3}{4}$

4. Complete these:

$$300\text{g} = 0.3 \text{ kg}$$

$$250\text{g} = \frac{1}{4} \text{ kg}$$

$$500\text{g} = 0.5 \text{ kg}$$

$$\frac{3}{4} \text{ kg} = 750\text{g}$$

5. Solve the following sums. Write the answers as both an improper fraction and mixed number.

$$\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$$

$$\frac{10}{7} - \frac{2}{7} = \frac{8}{7} = 1\frac{1}{7}$$

$$\frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$$

$$\frac{13}{10} - \frac{1}{10} = \frac{12}{10} = 1\frac{2}{10} = 1\frac{1}{5}$$

6. Solve the following sums. Write the answers as both an improper fraction and mixed number.

$$\frac{3}{4} \times 6 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$$

$$\frac{1}{2} \times 7 = \frac{7}{2} = 3\frac{1}{2}$$

$$\frac{2}{5} \times 8 = \frac{16}{5} = 3\frac{1}{5}$$

$$\frac{3}{10} \times 5 = \frac{15}{10} = 1\frac{5}{10} = 1\frac{1}{2}$$