

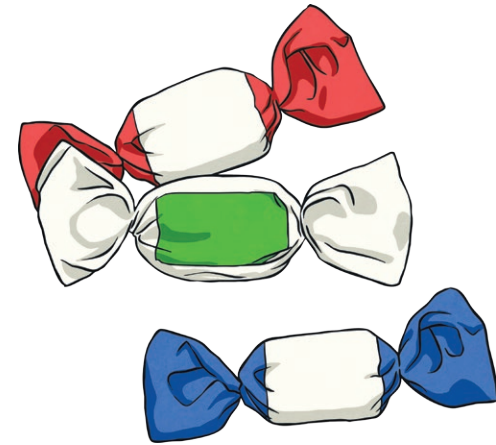
Fraction Word Problems

Challenge Cards



Fraction Word Problems

1. Would you rather have $\frac{1}{4}$ of 40 sweets or $\frac{1}{2}$ of 30 sweets?



twinkl.com

Fraction Word Problems

2. Bob had €524. He spent $\frac{1}{4}$ of it on a new bike. How much money does he have left?



twinkl.com

Fraction Word Problems

3. A phone costs €448. Fiona has saved $\frac{3}{4}$ of the price of the phone. How much has she saved? How much more does she need to save to get the phone?



twinkl.com

Fraction Word Problems

4. David had €645. He spent $\frac{2}{5}$ of it buying Christmas presents. How much money has he got left?



twinkl.com

Fraction Word Problems

5. Pat read $\frac{6}{8}$ of a 472 page book. How many pages has he still to read?



twinkl.com

Fraction Word Problems

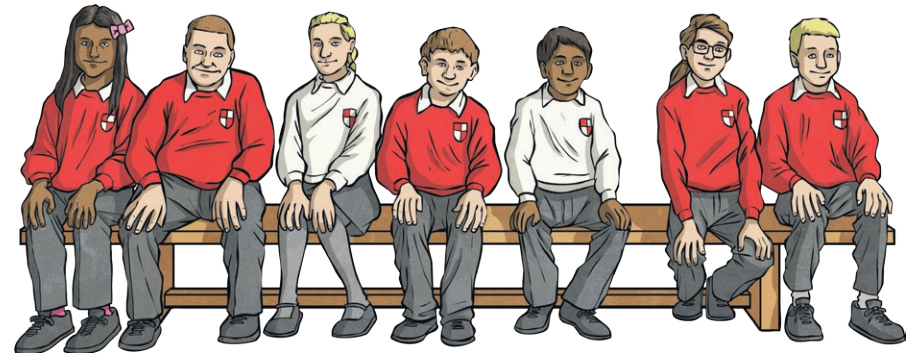
6. A school trip costs €64.80. Sarah has saved $\frac{7}{8}$ of the price of the tour. How much more does she need to save?



twinkl.com

Fraction Word Problems

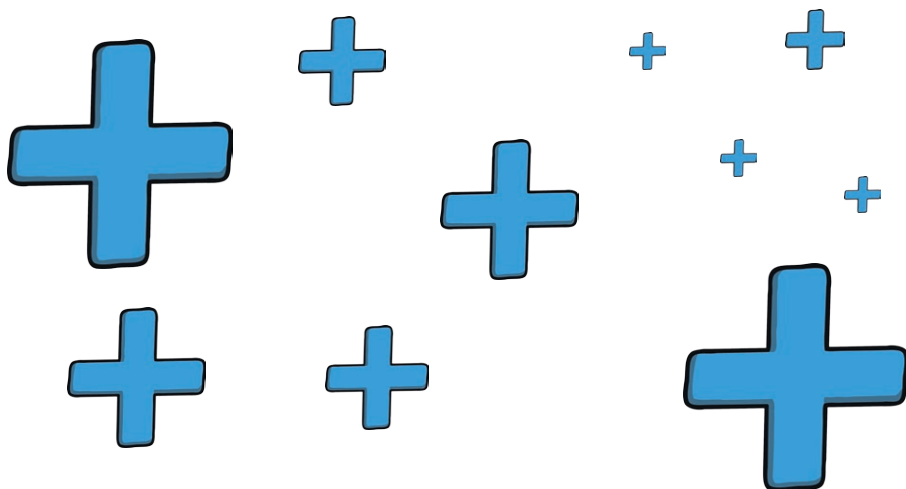
7. $\frac{2}{6}$ of the children in a school are boys. If there are 546 children in the school, how many are girls?



twinkl.com

Fraction Word Problems

8. Add $\frac{1}{5}$ of 55 to $\frac{2}{3}$ of 60.



twinkl.com

Fraction Word Problems

9. Leanne had 20 marbles. She lost 5 playing against her friend. What fraction of her marbles are left, in its simplest form?



twinkl.com

Fraction Word Problems

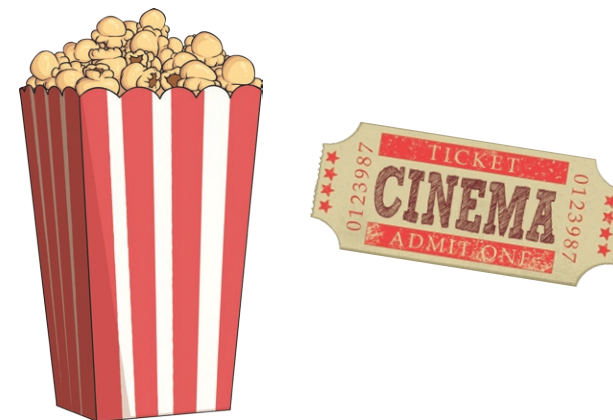
10. Justin had 15 flowers. He gave 3 to his friend Sophie. What fraction does he have left, in simplest form?



twinkl.com

Fraction Word Problems

11. Amy had €12. She spent €5 on a cinema ticket and €3 on popcorn and sweets. What fraction of her money had she left?



twinkl.com

Fraction Word Problems

12. Jane got sixteen of her twenty calculations correct in her maths test. What fraction of the test did she get correct in its simplest form?



Fraction Word Problems

Method and answer for 1.

Would you rather have $\frac{1}{4}$ of 40 sweets or $\frac{1}{2}$ of 30 sweets?

$$\frac{1}{4} \text{ of } 40 = 40 \div 4 = 10$$

$$\frac{1}{2} \text{ of } 30 = 30 \div 2 = 15$$

Answer: You would rather have $\frac{1}{2}$ of 30 sweets than $\frac{1}{4}$ of 40 sweets.

twinkl.com

Fraction Word Problems

Method and answer for 2.

Bob had €524. He spent $\frac{1}{4}$ of it on a new bike. How much money does he have left?

$$\frac{1}{4} \text{ of } 524 = 524 \div 4 = 131$$

How much does he have left?

$$\begin{array}{r} 524 \\ -131 \\ \hline 393 \end{array}$$

Answer: Bob has €393 left.

twinkl.com

Fraction Word Problems

Method and answers for 3.

A phone cost €448. Fiona has saved $\frac{3}{4}$ of the price of the phone. How much has she saved? How much more does she need to save to get the phone?

$$\frac{3}{4} \text{ of } €448 = 4 \overline{)112} \quad \begin{array}{r} 112 \\ \times 3 \\ \hline 336 \end{array}$$

Answer: She has saved €336.

$$\begin{array}{r} 448 \\ -336 \\ \hline 112 \end{array}$$

Answer: Fiona needs to save €112 more to get the phone.

twinkl.com

Fraction Word Problems

Method and answers for 4.

David had €645. He spent $\frac{2}{5}$ of it buying Christmas presents. How much money has he got left?

$$\frac{2}{5} \text{ of } €645 = 5 \overline{)129} \quad \begin{array}{r} 129 \\ \times 2 \\ \hline 258 \end{array} \quad \begin{array}{r} 645 \\ -258 \\ \hline 387 \end{array}$$

Answer: David has €387 left.

Alternatively, children may subtract $\frac{2}{5}$ from $\frac{5}{5}$ to find the fraction of money remaining. They then find a fifth of the amount and multiply this by 3 to find 3 fifths which is €387.

twinkl.com

Fraction Word Problems

Method and answer for 5.

Pat read $\frac{6}{8}$ of a 472 page book. How many pages has he still to read?

$$\frac{6}{8} \text{ of } 472 = 8 \overline{) \begin{array}{r} 59 \\ 472 \\ \times 6 \\ \hline 354 \end{array}} \quad \begin{array}{r} 59 \\ \times 6 \\ \hline 354 \end{array} \quad \begin{array}{r} 472 \\ -354 \\ \hline 118 \end{array}$$

Alternatively, children may subtract $\frac{6}{8}$ from $\frac{8}{8}$ to find the fraction of pages remaining. They then find an eighth of the amount and multiply this by 2 to find 2 eighths which is 118.

Answer: Pat still has 118 pages to read.

twinkl.com

Fraction Word Problems

Method and answer for 6.

A school trip costs €64.80. Sarah has saved $\frac{7}{8}$ of the price of the tour. How much more does she need to save?

$$\frac{7}{8} \text{ of } €64.80 = 8 \overline{) \begin{array}{r} 8.10 \\ 64.80 \\ \times 7 \\ \hline 56.70 \end{array}} \quad \begin{array}{r} 8.10 \\ \times 7 \\ \hline 56.70 \end{array} \quad \begin{array}{r} 64.80 \\ -56.70 \\ \hline 8.10 \end{array}$$

Alternatively, children may subtract $\frac{7}{8}$ from $\frac{8}{8}$ to find the fraction of money remaining to save which is €8.10.

Answer: Sarah needs to save another €8.10 for the school trip.

twinkl.com

Fraction Word Problems

Method and answer for 7.

$\frac{2}{6}$ of the children in a school are boys. If there are 546 children in the school, how many are girls?

$$\frac{2}{6} \text{ of } 546 = 6 \overline{) \begin{array}{r} 91 \\ 546 \\ \times 2 \\ \hline 182 \end{array}} \quad \begin{array}{r} 91 \\ \times 2 \\ \hline 182 \end{array} \quad \begin{array}{r} 546 \\ -182 \\ \hline 364 \end{array}$$

Alternatively, children may subtract $\frac{2}{6}$ from $\frac{6}{6}$ to find the fraction of girls. They then find a sixth of the amount and multiply this by 4 to find 4 sixths which is 364.

Answer: There are 364 girls in the school.

twinkl.com

Fraction Word Problems

Method and answer for 8.

Add $\frac{1}{5}$ of 55 to $\frac{2}{3}$ of 60.

$$\frac{1}{5} \text{ of } 55 = 5 \overline{) \begin{array}{r} 11 \\ 55 \end{array}} \quad \left| \quad \frac{2}{3} \text{ of } 60 = 3 \overline{) \begin{array}{r} 20 \\ 60 \\ \times 2 \\ \hline 40 \end{array}} \quad \begin{array}{r} 40 \\ +11 \\ \hline 51 \end{array}$$

Answer: 51

twinkl.com

Fraction Word Problems

Method and answer for 9.

Leanne had 20 marbles. She lost 5 playing against her friend. What fraction of her marbles are left, in its simplest form?

$$20 - 5 = 15$$

$$\frac{15}{20} = 15 \div 5 = \frac{3}{4}$$

$$20 = 20 \div 5 = 4$$

Answer: Leanne had $\frac{3}{4}$ of her marbles left.

twinkl.com

Fraction Word Problems

Method and answer for 10.

Justin had 15 flowers. He gave 3 to his friend Sophie. What fraction does he have left, in simplest form?

$$15 - 3 = 12$$

$$\frac{12}{15} = 12 \div 3 = \frac{4}{5}$$

$$15 = 15 \div 3 = 5$$

Answer: Justin had $\frac{4}{5}$ of his flowers left.

twinkl.com

Fraction Word Problems

Method and answer for 11.

Amy had €12. She spent €5 on a cinema ticket and €3 on popcorn and sweets. What fraction of her money had she left?

$$€5 + €3 = €8$$

$$€12 - €8 = €4$$

$$\frac{4}{12} = 4 \div 4 = \frac{1}{3}$$

$$12 = 12 \div 4 = 3$$

Answer: Amy had $\frac{1}{3}$ of her money left.

twinkl.com

Fraction Word Problems

Method and answer for 12.

Jane got sixteen of her twenty calculations correct in her maths test. What fraction of the test did she get correct in its simplest form?

$$\frac{16}{20} = 16 \div 4 = \frac{4}{5}$$

$$20 = 20 \div 4 = 5$$

Answer: Jane got $\frac{4}{5}$ of her maths calculations correct.

twinkl.com