



Windsor Education

Fractions & Decimals



Fractions - Operations

Calculate the following

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

$$\frac{5}{6} \div \frac{2}{9} =$$

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

$$\frac{9}{10} - \frac{2}{3} =$$

Your Turn

Calculate the following

$$\frac{5}{11} \div \frac{4}{5} =$$

$$\frac{11}{12} + \frac{7}{8} =$$

$$\frac{7}{15} \times \frac{1}{2} =$$

$$\frac{10}{13} - \frac{1}{3} =$$



Mixed Numbers

Convert the following to mixed numbers:

$$\frac{17}{3} =$$

$$\frac{24}{5} =$$

Convert the following to improper fractions:

$$4\frac{1}{2} =$$

$$10\frac{5}{6} =$$

Calculate the following

$$1\frac{2}{3} \div 5\frac{1}{2} =$$

Your Turn

Write $\frac{35}{8}$ as a mixed number

Your Turn

Calculate the following

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





Exam Style Questions

James is going to a football match. He spends $\frac{3}{4}$ of his pocket money on the ticket and $\frac{1}{6}$ on food. What fraction of his total pocket money did he spend?

Your Turn

For school dinners, students get a choice of 3 meals: burgers, curry or pizza. $\frac{3}{8}$ choose curry and $\frac{2}{7}$ choose pizza.

- What fraction chose burgers?
- If there are 168 students in total, how many chose pizza?

Your Turn

A wall measures $3\frac{3}{4}$ metres by $4\frac{1}{3}$ metres. A can of paint costs £6 and covers 2.5m^2 . Work out the cost of painting the wall.





Decimals - Operations

Calculate the following

$$3.57 + 9.182$$

$$12.437 - 2.33$$

$$5.6 \times 3.4$$

$$7.2 \div 0.08$$

Your Turn

Calculate the following

$$8.1 \times 0.3$$

$$92.44 - 7.2$$

$$111.3 \div 0.21$$

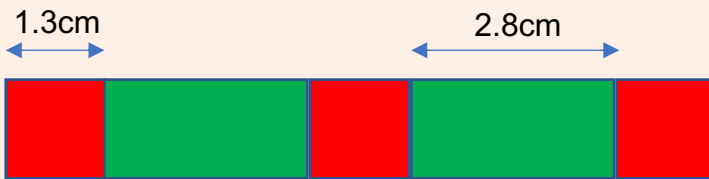
$$32.8 + 1.12$$





Exam Style Questions

The shape below is made up of identical squares and rectangles. Find the perimeter of the shape.



Your Turn

Mr Smith takes his class of 21 students to the Science Museum. What is the total cost for everyone?

Adults: £8.60
Students: £5.30



Worksheet

1. Calculate the following

a) $\frac{8}{9} \div \frac{3}{2} =$

b) $\frac{2}{5} + \frac{1}{3} =$

c) $9.2 \times 6.4 =$

d) $\frac{5}{13} \times \frac{3}{4} =$

e) $110.34 - 22.2 =$

f) $93.6 \div 2.4 =$

g) $\frac{11}{15} - \frac{3}{10} =$

h) $\frac{7}{11} \div \frac{5}{6} =$

i) $82.301 + 29.08 =$

j) $\frac{1}{2} \times \frac{4}{37} =$



Worksheet

2. Calculate the following

a) $\frac{3}{4} \times 1\frac{1}{2} =$

b) $2\frac{2}{9} + \frac{5}{6} =$

c) $2\frac{6}{7} \times 3\frac{1}{5} =$

d) $3\frac{2}{3} - 1\frac{11}{20} =$

e) $2\frac{1}{3} \div 5\frac{1}{2} =$

3. The following table gives the prices of fruit in a shop. Calculate the cost of 1.1kg of apples, 2.4kg of bananas and 3.2kg of oranges.

Apples: £0.80 per kilogram
Bananas: £1.10 per kilogram
Oranges: £1.32 per kilogram



Worksheet

4. In a school, students must study either French, Spanish or Mandarin. If $\frac{3}{20}$ study Mandarin and $\frac{5}{8}$ study French, what fraction of the pupils' study Spanish?

5. Shown is a rectangle. Find the value of x .

x cm

Area = 10cm^2

$2\frac{5}{6}$ cm

