Fractions

1. Which of the fractions is bigger?

1) $\frac{1}{2}$ or $\frac{1}{3}$

(2) $\frac{1}{4}$ or $\frac{1}{3}$

3) $\frac{1}{2}$ or $\frac{1}{8}$

(4) $\frac{1}{3}$ or $\frac{1}{8}$

2. Write these fractions in order from smallest to biggest:

1) $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}$

(2) $\frac{1}{5}, \frac{1}{6}, \frac{1}{4}$

(3) $\frac{3}{5}, \frac{1}{2}, \frac{2}{3}$

(4) $\frac{3}{5}, \frac{3}{4}, \frac{2}{3}$

3. Convert these mixed numerals to improper fraction form

1) $2\frac{2}{7}$

2) $3\frac{3}{4}$

3) $3\frac{7}{11}$

4) $12\frac{6}{10}$

4. Convert these fractions to mixed numerals form

1) $\frac{12}{5}$

2) $\frac{16}{7}$

3) $\frac{24}{8}$

4) $\frac{56}{9}$

5. Find the missing value to make the fractions equivalent

1) $\frac{2}{7} = \frac{?}{28}$

2) $\frac{3}{5} = \frac{?}{25}$

3) $\frac{4}{9} = \frac{?}{36}$

4) $\frac{5}{6} = \frac{?}{66}$

6. Evaluate

1) $\frac{5}{6} - \frac{1}{2}$

2) $\frac{1}{8} + \frac{2}{5}$

3) $\frac{4}{5} - \frac{2}{3}$

4) $\frac{3}{4} + \frac{5}{6}$

5) $\frac{11}{15} - \frac{5}{12}$

7. Simplify these fractions

1) $\frac{4}{14}$

2) $\frac{25}{40}$

3) $\frac{12}{15}$

4) $\frac{18}{12}$

5) $\frac{68}{36}$

8. Evaluate, giving answers in simplest form

1) $\frac{1}{5} \times \frac{4}{7}$ 2) $\frac{4}{9} \times \frac{2}{3}$ 3) $\frac{3}{12} \times \frac{4}{5}$ 4) $\frac{6}{7} \times \frac{3}{10}$ 5) $\frac{5}{8} \times 16$ 6) $6 \times \frac{5}{8}$

9. Evaluate, giving answers in simplest form

1) $\frac{2}{3} \div \frac{7}{10}$ 2) $\frac{1}{6} \div \frac{5}{6}$ 3) $\frac{3}{4} \div \frac{1}{5}$ 4) $\frac{5}{9} \div 10$ 5) $8 \div \frac{10}{13}$

10. Solve word problems:

A) In a sale a computer printer is offered at half price. The original price was £210. What is the sale price?

B) A 480g jar of coffee is three-quarters full. How many grams of coffee does it contain?

C) Winston answered two-thirds of the questions correctly in a test containing 45 questions. How many did he get right?

D) As a result of track and signalling improvements, the journey by rail between two towns has been cut by one-sixth. It used to take 54 minutes. By how much has the journey time been reduced?

E) An item in a mail order catalogue cost £108. One-twelfth of this price was donated by the catalogue company to a charity. How much did the charity get?

F) Joanne and Gawin are having a cake-baking competition. They both bake chocolate cakes that are the same size. Joanne cuts her cake into fifths, and Gawin cuts his cake into quarters. Whose cake is cut into the biggest pieces?

11. Evaluate:

$$a)\, 2.\left(\frac{1}{4}+\frac{2}{5}\right)=$$

$$b)\left(1-\frac{5}{8}\right).3=$$

$$c)\, 7.\left(\frac{11}{14}-\frac{3}{4}\right)=$$

$$d)\left(\frac{2}{3}-\frac{6}{11}\right).\left(\frac{5}{8}-\frac{7}{16}\right)=$$

$$e)\left(2\frac{4}{5}+\frac{2}{25}\right):\frac{9}{5}=$$

$$f)\frac{19}{3}:\left(3\frac{2}{9}-2\frac{1}{6}\right)=$$

How do you feel about the following?

OK	More
	Practice

OK	More Practice	
☐	☐	Simplifying fractions
☐	☐	Adding fractions
☐	☐	Subtracting fractions
☐	☐	Multiplying fractions
☐	☐	Dividing fractions
☐	☐	Working out fractions of an amoun