

Fractions Decimals Percentages Revision

1) Calculate

a) $\frac{2}{7} + \frac{3}{7}$

b) $\frac{2}{3} \times \frac{3}{5}$

c) $\frac{3}{4} \div \frac{7}{8}$

d) $\frac{5}{6} - \frac{3}{8}$

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

f) $3\frac{1}{2} - 2\frac{3}{5}$

g) $2\frac{1}{2} \times \frac{7}{10}$

h) $3 \div 1\frac{5}{6}$

i) $\frac{5}{6}$ of 72

j) $\frac{2}{7}$ of 10

2) On Monday I ran $2\frac{1}{3}$ km, on Tuesday I ran $1\frac{7}{9}$ km. Find the total amount that I ran. How much further do I need to run to do a total of $6\frac{1}{2}$ km?

3) A glass has a volume of $\frac{5}{9}$ litre. I have $13\frac{1}{3}$ litres of orange juice. How many glasses can I fill?

4) Each puppy has a mass of $3\frac{1}{6}$ kg. What is the mass of 8 puppies?

5) Convert between fraction/decimal/percentages

	Fraction	Decimal	Percentage
a	$\frac{7}{25}$		
b		0.65	
c			12%
d		0.04	
e	$\frac{3}{8}$		
f		0.002	
g			2.5%
h	$\frac{5}{6}$		
i	$\frac{9}{20}$		
j		1.4	
k			200%

6) Convert the following between improper and mixed number fractions

a) $\frac{18}{5}$ b) $5\frac{1}{3}$ c) $\frac{37}{3}$ d) $8\frac{5}{6}$

7) Simplify fully

a) $\frac{28}{35}$ b) $\frac{16}{20}$ c) $\frac{120}{140}$ d) $\frac{96}{108}$

8) Find:

a) 26% of 750m b) 82% of 5500ml

c) 47% of £55 d) 18% of 9km

9) Place the following in order from smallest to largest

$\frac{2}{3}$ 0.65 70% $\frac{5}{8}$ $\frac{3}{4}$

10) In my March assessment I scored 21 out of 30 on my first paper and 23 out of 25 on my second paper. Find my overall percentage mark.

11) Scrooge McDuck leaves an inheritance of £40,000 for his 3 nephews.

$\frac{7}{20}$ of it goes to Dewie

85% of the rest goes to Hughie

How much does Louis get?

1a) $\frac{5}{7}$ b) $\frac{2}{5}$ c) $\frac{6}{7}$ d) $\frac{11}{24}$ e) $2\frac{2}{3}$ f) $\frac{9}{10}$ g) $1\frac{3}{4}$ h) $1\frac{7}{11}$ i) 60 j) $2\frac{6}{7}$ 2) $4\frac{1}{9}$ km, $2\frac{7}{18}$ km left

3) 24 4) $25\frac{1}{3}$ kg 5a) 0.28, 28% b) $\frac{13}{20}$, 65% c) $\frac{3}{25}$, 0.12 d) $\frac{1}{25}$, 4% e) 0.375, 37.5%

f) $\frac{1}{500}$, 0.2% g) $\frac{1}{40}$, 0.025 h) $0.8\dot{3}$, $83.\dot{3}\%$ i) 0.45, 45% j) $1\frac{2}{5}$, 140% k) 2 for both

6a) $3\frac{3}{5}$ b) $\frac{16}{3}$ c) $12\frac{1}{3}$ d) $\frac{53}{6}$ 7a) $\frac{4}{5}$ b) $\frac{4}{5}$ c) $\frac{6}{7}$ d) $\frac{8}{9}$ 8a) 195m b) 4510ml

c) £25.85 d) 1.62km 9) $\frac{5}{8}$ 0.65 $\frac{2}{3}$ 70% $\frac{3}{4}$ 10) 80% 11) £3900