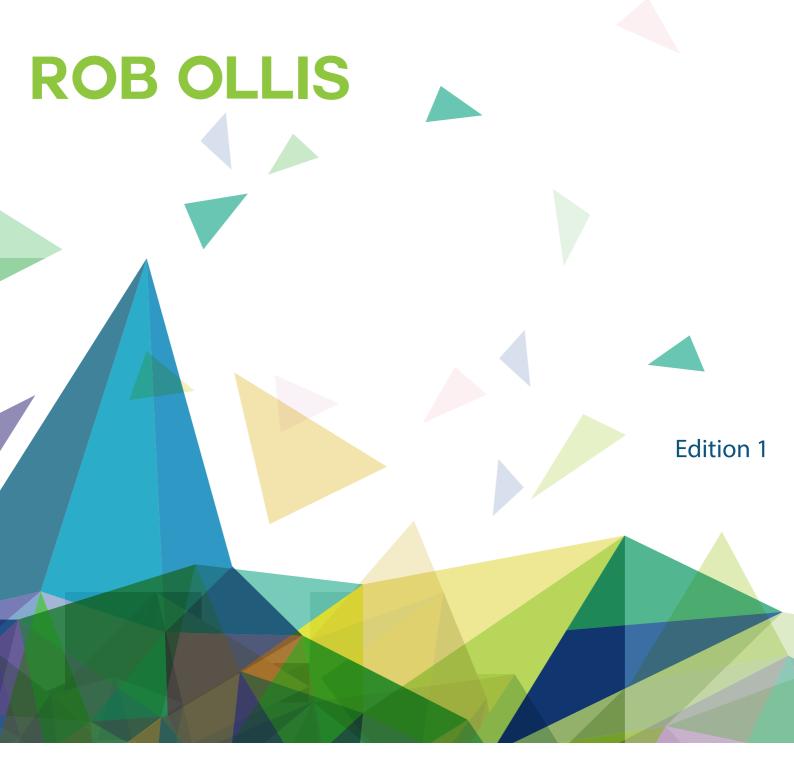
ADDITION & SUBTRACTION OF FRACTIONS

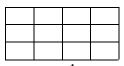


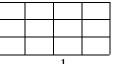


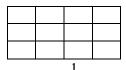


Set 1.

Shade in the amount indicated by the given fraction for each rectangle. 1)







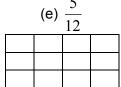


(a)
$$\frac{1}{2}$$

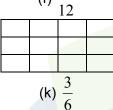


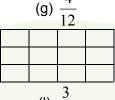
(c)
$$\frac{1}{4}$$

$$(d) \frac{1}{6}$$

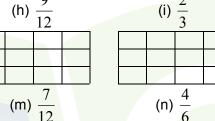


(f)
$$\frac{6}{12}$$















(o)
$$\frac{8}{12}$$

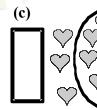
- (p) Which other fractions have the same shaded area as $\frac{1}{2}$?
- (q) Which other fraction has the same shaded area as $\frac{3}{4}$?
- (r) Find 2 fractions that have the same shaded area as $\frac{2}{3}$?

2) What fraction of each group is circled?

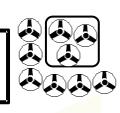












3) Use the opposite diagram to find

(a)
$$\frac{1}{2}$$
 of 24 =

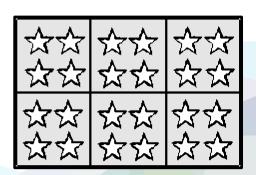
(b)
$$\frac{1}{4}$$
 of 24 =

(c)
$$\frac{1}{3}$$
 of 24 =

(a)
$$\frac{1}{2}$$
 of 24 = (b) $\frac{1}{4}$ of 24 = (c) $\frac{1}{3}$ of 24 = (d) $\frac{2}{3}$ of 24 =

(e)
$$\frac{1}{6}$$
 of 24 = (f) $\frac{5}{6}$ of 24 =

(f)
$$\frac{5}{6}$$
 of 24 =





Finding the Simplest Denominator

a
$$\frac{5 \times 2}{12 \times 2} + \frac{1 \times 3}{8 \times 3} = \frac{10}{24} + \frac{3}{24}$$

$$4 \times 3 \qquad 4 \times 2$$

() **x** 3 (**4**) **x** .

Common factor

Step 1: Delete the common factor of (4)

Step 2: Swap the remaining factors to the

top and bottom of the other fraction

b
$$\frac{3 \times 3}{20 \times 3} + \frac{8 \times 4}{15 \times 4} = \frac{9}{60} + \frac{32}{60}$$

$$\boxed{5} \times 4 \qquad \boxed{5} \times 3$$

Common factor

 $\textbf{Step 1}: \quad \text{Delete the common factor of } \textbf{ 5}) \\$

Step 2: Swap the remaining factors to the top and bottom of the other fraction

The examples on the next page have already had their bottom numbers (denominators) factorised.

Remember -

First: Delete the common factor in the denominators.

Then: Use the remaining factor(s) to multiply the top and bottom of the other fraction.



Set 11 Answers

Fractions

1 a
$$3\frac{3}{8}$$
 b $3\frac{1}{2}$ **c** $6\frac{1}{8}$ **d** $3\frac{1}{4}$

b
$$3\frac{1}{2}$$

c
$$6\frac{1}{8}$$

d
$$3\frac{1}{4}$$

e
$$8\frac{13}{30}$$
 f $5\frac{31}{72}$ **g** $5\frac{1}{20}$ **h** $\frac{3}{8}$

f
$$5\frac{31}{72}$$

g
$$5\frac{1}{20}$$

h
$$\frac{3}{8}$$

i
$$2\frac{1}{2}$$

j
$$1\frac{2}{9}$$

i
$$2\frac{1}{2}$$
 j $1\frac{2}{9}$ **k** $16\frac{1}{5}$ **l** $18\frac{1}{4}$

1
$$18\frac{1}{4}$$

2 a
$$7\frac{5}{8}$$
 b $1\frac{3}{4}$ **c** $4\frac{13}{18}$ **d** $2\frac{11}{12}$

b
$$1\frac{3}{4}$$

$$c 4\frac{13}{18}$$

d
$$2\frac{11}{12}$$

e
$$1\frac{11}{12}$$

f
$$3\frac{23}{36}$$

e
$$1\frac{11}{12}$$
 f $3\frac{23}{36}$ **g** $5\frac{13}{16}$ **h** $7\frac{7}{10}$

h
$$7\frac{7}{10}$$

i
$$8\frac{3}{4}$$

i
$$8\frac{3}{4}$$
 j $12\frac{13}{18}$ k $15\frac{5}{8}$

$$k 15\frac{5}{8}$$

1
$$25\frac{12}{35}$$

3 a
$$9\frac{5}{12}$$
 b $13\frac{1}{24}$ **c** $8\frac{7}{16}$ **d** $4\frac{23}{40}$

b
$$13\frac{1}{24}$$

c
$$8\frac{7}{16}$$

d
$$4\frac{23}{40}$$

e
$$5\frac{23}{24}$$

f
$$11\frac{1}{6}$$

g
$$12\frac{7}{18}$$

e
$$5\frac{23}{24}$$
 f $11\frac{1}{6}$ g $12\frac{7}{18}$ h $23\frac{19}{20}$

i
$$19\frac{5}{6}$$
 i $22\frac{1}{4}$ k $\frac{3}{4}$ l $3\frac{7}{16}$

j
$$22\frac{1}{4}$$

$$\mathbf{k} = \frac{3}{4}$$

1
$$3\frac{7}{16}$$

4 Thinkers: a number is $7\frac{1}{2}$

b number is 8.6

c number is 4



Master Coaching Pledge

Master Coaching Keys to Learning:

The following charter has been produced to prepare you the pursuit of excellence that leads to a life-time of rewards and fulfillment. This is a partnership agreement that allows both parties to mutually benefit from your time at Master Coaching

At the coaching session:

- 1. Smile, relax, you are focused and in control
- 2. Concentrate, visualize, execute: claim the reward
- 3. Assume success. Our members should approach each test in life enthusiastically; every challenge presents an opportunity to demonstrate your prowess. Relish but don't underestimate the magnitude of the test, instead focus your thoughts towards a positive outcome, a chance to excel; a time to enjoy your moment in the sun.

Master Coaching Pledge

Master Coaching Pledge

- that your welfare is the paramount consideration in everything that we do
- to be diligent in our preparations which directs our actions in support of you
- show care and give encouragement to you in your striving for excellence
- to personalise all our efforts to your specific needs in all areas
- to encourage you to dare to dream, and to expect that dreams do come true

My Commitment to Master Coaching

- to be honest in all my dealings and
- to accept their accolades and focus my efforts on achieving the zenith in all my endeavours
- to appreciate my cohorts and support them in any way possible
- to live the dream, strive for excellence in everything that I do
- visualise my ultimate success

Christian Avent

CHRISTIAN AVENT

B.Ed. NCAS Principal

Robert A Ollis

ROBERT A. OLLIS

B.Sc., Dip.Ed., M.Sc. Founder, Master Coaching

Your complete satisfaction is the focus of everything we do.