## Green Answers

| | |
|---|---|
| 1 | 4 |
| 2 | 5 |
| 3 | 16 |
| 4 | 5 |
| 5 | 8 |
| 6 | 8 |
| 7 | 1 |
| 8 | 16 |

The following answers are just examples. You may have others:

| | | | | |
|---|---|---|---|---|
| 1 | $\frac{2}{4}$ | $\frac{3}{6}$ | $\frac{4}{8}$ | $\frac{5}{10}$ |
| 2 | $\frac{2}{6}$ | $\frac{3}{9}$ | $\frac{4}{12}$ | $\frac{5}{15}$ |
| 3 | $\frac{6}{8}$ | $\frac{9}{12}$ | $\frac{12}{16}$ | $\frac{15}{20}$ |
| 4 | $\frac{8}{10}$ | $\frac{12}{15}$ | $\frac{16}{20}$ | $\frac{20}{25}$ |
| 5 | $\frac{4}{6}$ | $\frac{6}{9}$ | $\frac{8}{12}$ | $\frac{10}{15}$ |

## Yellow Answers

Use the following digits to write two equivalent fractions. Explain in sentences why you think you are correct.

1) 7 3 21 9

7 3

\- = -

21 9

2) 5 28 20 7

5 7

\- = -

20 28

3) 4 3 9 12

3 9

\- = -

4 12

4) 6 16 40 15

6 15

\- = -

16 40

5) 27 9 15 45

9 15

\- = -

27 45

6) 36 3 15 180

3 15

- = -

36 180

7) Make each number sentence correct using =, < or >.

$\frac{3}{4} \bigcirc \frac{1}{2}$ $1\frac{3}{4} \bigcirc 2\frac{1}{2}$

$\frac{3}{8} \bigcirc \frac{1}{2}$ $\frac{3}{2} \bigcirc 1\frac{1}{2}$

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

Pick 3 of your answers and explain **clearly** why you think you are correct.

3 1

- > -

4 2

3 1

- < -

8 2

3 3

- > -

4 8

3 1

1 - < 2 -

4 2

3 1

$$-\ =\ 1\ -$$

$$2 \qquad\qquad 2$$

$$3 \qquad\qquad 3$$

$$3\ -\ >\ 3\ -$$

$$4 \qquad\qquad 8$$

Answers can range for the second part of this question. For 3 of your answers you need to have clearly explained why the answer is was it is.

Red Answers

**Q1.**

Both values correct, as shown:

$$\frac{3}{4} = \frac{9}{\boxed{12}} = \frac{\boxed{18}}{24}$$

**Q2.**

Fractions written in the correct order, as shown:

$$\frac{3}{5} \quad \frac{3}{4} \quad \frac{6}{5}$$

**Q3.**

$$\frac{\boxed{11}}{2}$$

$$3\frac{\boxed{2}}{5}$$

## Q4.

(a) $\frac{3}{8}$ written in the first box

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 0.375*

(b) $2\frac{7}{8}$ **OR** $\frac{23}{8}$ written in the last box

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 2.875*

## Q5.

Fraction circled as shown:

$\frac{7}{8}$ $\frac{2}{5}$ $\frac{1}{3}$ $\frac{5}{8}$ $\frac{3}{6}$

## Q6.

$\frac{23}{35}$

*Accept equivalent fractions.*

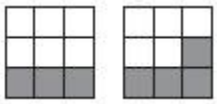
## Q7.

Fractions completed as shown below:

$\frac{6}{10}$ $\frac{9}{15}$ $\frac{12}{20}$

## Q8.

(a) Indicates **Yes** and gives a correct explanation, eg:

- $\frac{1}{3} = \frac{3}{9}, \frac{3}{9} < \frac{4}{9}$
- 
- $\frac{1}{3}$ of 9 is 3 not 4
- $\frac{4}{9}$ should be $\frac{1.333...}{3}$, not $\frac{1}{3}$
- 0.33... < 0.44...
- $\frac{1}{3} = \frac{4}{12}, \frac{4}{12} < \frac{4}{9}$
- $\frac{1}{3}$ of 27 = 9 and $\frac{4}{9}$ of 27 = 12

*Accept minimally acceptable explanation, eg:*

- $\frac{3}{9}$
- $\frac{9}{27}, \frac{12}{27}$
- *4 is over a third of 9*
- $\frac{1}{3}$ *of 9 is 3*
- $\frac{4}{9}$ *is closer to a half than a third*
- *0.33, 0.44*
- *It is one ninth bigger*
- *If you divide* $\frac{4}{9}$ *by a* $\frac{1}{3}$ *you get* $\frac{4}{3}$
- $\frac{4}{12}$

(b) Indicates **No** and gives a correct explanation, eg:

- The fractions are equal; if you multiply the numerator and denominator
  by the same number the fractions are equivalent

- $\frac{4}{9} = \frac{8}{18}$
- $\frac{4}{9} \times 2 = \frac{8}{9}$ not $\frac{8}{18}$
- $\frac{8}{18} \div 2 = \frac{4}{18}$ which is $\frac{2}{9}$ not $\frac{4}{9}$

- To double the fraction, you don't double the numerator and the denominator,
  you just double the numerator

- To halve the fraction, you don't halve the denominator, only the numerator

  *Accept minimally acceptable explanation, eg:*
  - *Equal*
  - *Equivalent*
  - *Same*
  - $\frac{4}{9}$ *is half of* $\frac{8}{9}$
  - $\frac{4}{18}$ *is half of* $\frac{8}{18}$
  - *You only double the top number*
  - *You only halve the top number*