

Ratio

T4: Simplifying ratios

Simplify the following ratios by finding a common factor and dividing the ratios by that factor until you can do it no longer.

Worked example

$$24:80 \rightarrow 12:40 \rightarrow 3:10$$

a 35:50

j 68:102

s 128:320

b 45:100

k 45:900

t 2560:512

c 68:80

l 64:2048

u 51:136

d 60:72

m 52: 260

v 48:64

e 48:144

n 35:84

w 63: 387

f 52: 58

o 150: 45

x 8271:648

g 13:52

p 600:744

y 876:999

h 36:50

q 96:480

z 4k:3k

i 65:100

r 85:255

Simplify the following fractions

1 $\frac{21}{28}$

5 $\frac{25}{15x}$

2 $\frac{12}{15}$

6 $\frac{12x^2}{8}$

3 $\frac{18x}{6}$

7 $\frac{14x^2}{6x}$

4 $\frac{4x}{8}$

8 $\frac{27x^3y}{9x^2}$

Simplify the following ratios

A $4x^2 : 8x$

B $\frac{3}{4}x : \frac{5}{8}x^2$

C $12x^3y : 18x^2y : 30x^2y^3$