



Multiplication and Division of Decimals

Convert the decimals to fractions first

Do not use a calculator at any time!

1) Multiply these decimals together

a) 0.5×0.3

b) 0.7×0.2

c) 0.5×0.8

d) 0.3×0.9

e) 0.23×0.2

f) 0.25×0.8

g) 0.15×0.64

h) 0.81×0.02

2) Now try these relatively simple divisions

a) $0.4 \div 0.1$

b) $0.7 \div 0.2$

c) $0.48 \div 0.02$

d) $0.3 \div 0.01$

e) $0.2 \div 0.05$

f) $0.25 \div 0.01$

g) $0.96 \div 0.4$

h) $0.88 \div 0.011$

3) More involved multiplication

a) 1.5×0.3

b) 2.7×3.2

c) 4.51×0.8

d) 3.3×0.9

e) $0.23 \times 0.2 \times 1.2$

f) 0.25^2

g) 3.1×0.2^2

h) 0.2^3

4) Some general enrichment problems

Section A) The area of a circle is given (approximately) by $3.14 \times r^2$

Find the area of the circle when:

a) $r = 0.4$

b) $r = 0.12$

c) $r = 1.3$

d) $r = 5.12$

Section B) Distance = speed x time

Find the distance for the following situations

a) *A runner runs at a speed of 3.1 metres per second for 10.3 seconds*

b) *A car travels at a speed of 70.12 miles per hour for 0.23 hours*

c) *A snail travels at a speed of 0.321 cm per minute for 0.13 minutes*

