## Dividing with Decimals – www.m4ths.com – Steve Blades ©

(1) Using any written method, find each of the following. All the answers are integers so there will be no remainder:

(a) 448 ÷ 8 (b) 322 ÷ 7 (c) 731 ÷ 17 (d) 408 ÷ 12

(2) Using any written method, find each of the following. These will not be integers. Leave your answers as decimals rather than having a remainder:

(a)  $84 \div 8$  (b)  $56 \div 5$  (c)  $232 \div 6$  (d)  $65 \div 6$ 

### **Dividing a Decimal by an Integer**

(1) Using any written method, find each of the following. These will not be integers. Leave your answers as decimals rather than having a remainder. Some decimals might be recurring!

(a) 32.8 ÷ 5	(b) 48.6 ÷ 4	(c) 2.37 ÷ 6	(d) 78.5 ÷ 3	(e) 0.324 ÷ 6
(f) 6.08 ÷ 7	(g) 8.09 ÷ 3	(h) 2.187 ÷ 5	(i) 90.08 ÷ 4	(j) 2.198 ÷ 6

## **Dividing a Number by a Decimal**

(1) By writing an equivalent fraction, find each of the following without using a calculator. You don't need to make any 'alterations' at the end of your calculation!

(a) 2 ÷ 0.5	(b) 6 ÷ 0.3	(c) 12 ÷ 0.2	(d) 4 ÷ 0.1	(e) 9 ÷ 0.3
(f) 5 ÷ 0.01	(g) 40 ÷ 0.02	(h) 2 ÷ 0.05	(i) 12 ÷ 0.1	(j) 4 ÷ 0.08
(k) 8 ÷ 0.002	(I) 60 ÷ 0.003	(m) 52 ÷ 0.1	(n) 3.06 ÷ 0.02	(o) 1 ÷ 0.005
(p) 5 ÷ 0.0004	(q) 0.3 ÷ 0.02	(r) 0.5 ÷ 0.0002 (s)* 0.0001 ÷ 0.2		

(2) How many 6mm lengths of string could be cut from 30cm of string?

(3) How many 5p's go into £8

(4) How many 4cm pieces of wood could be cut from a 2m length?

(5)\* How many 0.004's go into 0.5?

(6)\* How many 0.00002's go into 0.3?

(7)\* A rectangle has an area of 6.2 cm<sup>2</sup> and one side length of 0.5 cm. What is the other side length?

- (8)\* A triangle has area 0.04cm<sup>2</sup> and a height of 0.008cm. How long is the base?
- (9)\* A square has a perimeter of 0.06cm. Find the area of the square.

(10)\* How many 0's go into 1?

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