



Year 11 HOME LEARNING

Week 3 Lesson 2

Subject: Number

Time to complete: 50 minutes

Learning Objective: To Divide Integers

The answers to the questions are included at the bottom. We would like the students to self-mark their work. This is a very valuable learning tool as it gives pupils immediate feedback and encourages independence and ownership over their learning. Please send your work in when you have marked it, showing any corrections that you have made.

Save your work:

If you are using a computer, open a blank document to do your work (you can use Word or Publisher). Don't forget to SAVE it with your name, the lesson you are doing and the date.

For example: T.Smith Maths 8 April

If you would like us to see or mark your work please email it or send a photo of your completed work to:

Mrs Shaw: Ishaw.305@glebe.bromley.sch.uk

Thank you

Mrs Shaw

Watch the video on Dividing Integers. Using what you have learnt, complete the practice questions below as you go through the video. This has also been set as homework on your MathsWatch account.

<https://vle.mathswatch.co.uk/vle/browse/174>

Use the multiplication square to help you with your work.

a) $177 \div 3$

a) $1472 \div 23$

a) $24 \div 5$

a) $103 \div 4$

b) $623 \div 7$

b) $928 \div 16$

b) $165 \div 2$

b) $165 \div 12$

c) $3460 \div 4$

c) $3514 \div 14$

c) $38 \div 4$

c) $144 \div 25$

d) $2912 \div 8$

d) $2784 \div 32$

d) $310 \div 25$

d) $246 \div 24$

e) $2832 \div 6$

e) $7668 \div 18$

e) $1096 \div 16$

e) $2832 \div 25$

f) $5832 \div 9$

f) $1323 \div 27$

f) $252 \div 15$

f) $426 \div 16$

Word problem challenge:

A box can hold 19 books.

Work out how many boxes will be needed to hold 646 books.

The distance from Glasgow to Paris is 1290 km.

A flight from Glasgow to Paris lasts 3 hours.

Given that

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}}$$

Work out the average speed of the aeroplane in km/h.

Pencils cost 25p each.

Mr Smith spends £15 on pencils.

Work out the number of pencils he gets.

Yesterday, Gino was paid £19.61 for delivering pizzas.

He is paid 53p for each pizza he delivers.

Work out how many pizzas Gino delivered yesterday.

Answers

a) $177 \div 3 = 59$

$$\begin{array}{r} 59 \\ 3 \overline{)177} \\ \underline{15} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

$$\begin{array}{r} 364 \\ 8 \overline{)2912} \\ \underline{24} \\ 51 \\ \underline{48} \\ 32 \\ \underline{32} \\ 0 \end{array}$$

b) $623 \div 7 = 89$

$$\begin{array}{r} 89 \\ 7 \overline{)623} \\ \underline{56} \\ 63 \\ \underline{63} \\ 0 \end{array}$$

$$\begin{array}{r} 472 \\ 6 \overline{)2832} \\ \underline{24} \\ 43 \\ \underline{42} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

c) $3460 \div 4 = 865$

d) $2912 \div 8 = 364$

e) $2832 \div 6 = 472$

f) $5832 \div 9 = 648$

a) $1472 \div 23 = 64$

$$\begin{array}{r} 64 \\ 23 \overline{)1472} \\ \underline{138} \\ 92 \\ \underline{92} \\ 0 \end{array}$$

$$\begin{array}{r} 87 \\ 32 \overline{)2784} \\ \underline{256} \\ 224 \\ \underline{224} \\ 0 \end{array}$$

b) $928 \div 16 = 58$

c) $3514 \div 14 = 251$

d) $2784 \div 32 = 87$

e) $7668 \div 18 = 426$

f) $1323 \div 27 = 49$

a) $24 \div 5 = 4.8$

$$\begin{array}{r} 4.8 \\ 5 \overline{)24.0} \\ \underline{20} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$\begin{array}{r} 12.4 \\ 25 \overline{)310.0} \\ \underline{50} \\ 60 \\ \underline{50} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

b) $165 \div 2 = 82.5$

c) $38 \div 4 = 9.5$

d) $310 \div 25 = 12.4$

e) $1096 \div 16 = 68.5$

f) $252 \div 15 = 16.8$

a) $103 \div 4 = 25.75$

$$\begin{array}{r} 25.75 \\ 4 \overline{)103.00} \\ \underline{80} \\ 23 \\ \underline{20} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

b) $165 \div 12 = 13.75$

c) $144 \div 25 = 5.76$

d) $246 \div 24 = 10.25$

e) $2832 \div 25 = 113.28$

f) $426 \div 16 = 26.625$

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Work out the average speed of the aeroplane in km/h.

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Mr Smith spends £15 on pencils.

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He is paid 53p for each pizza he delivers.

Work out how many pizzas Gino delivered yesterday.

1.) $646 \div 19 = 34$

2.) $1290 \text{ km} \div 3 = 430$

3.) $£15 \div £0.25 = 60$ pencils OR $1500 \text{ p} \div 25 \text{ p} = 60$ pencils

There are different ways to think about this, just be careful where you put your decimal point.

4.) $£19.61 \div 0.53 = 37$ pizzas OR $1961 \div 53 = 37$ pizzas

Now complete the online questions. These will be marked automatically so I can check your progress.

