



Year 11 HOME LEARNING

Week 3 Lesson 1

Subject: Number

Time to complete: 50 minutes

Learning Objective: To Multiply 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 Multiplying 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/173>

Use the multiplication square to help you with your work.

×	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

Work out:

a) 72×6

b) 54×9

c) 93×7

d) 236×5

e) 4×856

Work out:

a) 245×26

b) 562×68

c) 304×92

d) 56×567

e) 87×205

Word problem challenge:

“MathsWatch Travel” has 36 coaches.

Each of these coaches can carry 53 passengers.

How many passengers in total can all the coaches carry?

“MathsWatch Tours” has a plane that will carry 47 passengers.

To fly from Manchester to Lyon, each passenger pays £65

Work out the total amount that the passengers pay.

A Science textbook costs £13.

Mr Jones buys a class set of 34 books.

How much do they cost him?

A graphical calculator costs £18.

How much would 43 calculators cost?

Answers:

Work out:

a) $72 \times 6 = 432$

$$\begin{array}{r} 72 \\ \times 6 \\ \hline 432 \end{array}$$

b) $54 \times 9 = 486$

$$\begin{array}{r} 54 \\ \times 9 \\ \hline 486 \end{array}$$

c) $93 \times 7 = 651$

$$\begin{array}{r} 93 \\ \times 7 \\ \hline 651 \end{array}$$

d) $236 \times 5 = 1180$

$$\begin{array}{r} 236 \\ \times 5 \\ \hline 1180 \end{array}$$

e) $4 \times 856 = 3424$

$$\begin{array}{r} 856 \\ \times 4 \\ \hline 3424 \end{array}$$

Work out:

a) $245 \times 26 = 6370$

$$\begin{array}{r} 245 \\ \times 26 \\ \hline 1470 \\ 4900 \\ \hline 6370 \end{array}$$

b) $562 \times 68 = 38216$

$$\begin{array}{r} 562 \\ \times 68 \\ \hline 4496 \\ 33720 \\ \hline 38216 \end{array}$$

c) $304 \times 92 = 27968$

$$\begin{array}{r} 304 \\ \times 92 \\ \hline 608 \\ 27360 \\ \hline 27968 \end{array}$$

d) $56 \times 567 = 31752$

$$\begin{array}{r} 567 \\ \times 56 \\ \hline 3402 \\ 28350 \\ \hline 31752 \end{array}$$

e) $87 \times 205 = 17835$

$$\begin{array}{r} 205 \\ \times 87 \\ \hline 1435 \\ 16400 \\ \hline 17835 \end{array}$$

“MathsWatch Travel” has 36 coaches.

Each of these coaches can carry 53 passengers.

How many passengers in total can all the coaches carry?

$$36 \times 53 = 1908$$

“MathsWatch Tours” has a plane that will carry 47 passengers.

To fly from Manchester to Lyon, each passenger pays £65

Work out the total amount that the passengers pay.

$$47 \times 65 = 3055$$

A Science textbook costs £13.

Mr Jones buys a class set of 34 books.

How much do they cost him?

$$£13 \times 34 = £442$$

A graphical calculator costs £18.

How much would 43 calculators cost?

$$£18 \times 43 = £774$$

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