

Daily times tables:

Don't forget to practise daily on Times Tables Rockstars to earn coins for your Avatar! **The Battle of the Bands ends on Friday at 5pm – remember to play for 10 minutes a day!**

<https://play.ttrockstars.com/auth/school/student>

You can also use this link to practise your times tables:

- <https://www.timestables.co.uk/speed-test/>

11/5/20

4 Ops - Addition

Written Method Layout:

$$89787 + 6879$$

Estimate:

$$90000 + 7000 = 97000$$

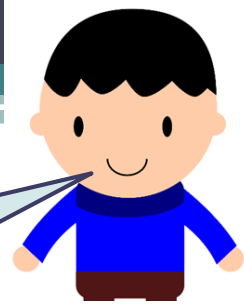
$$\begin{array}{r} 89787 \\ + 6879 \\ \hline 1111 \\ 96666 \end{array}$$

How can you check?

Inverse:

$$96666 - 6879 = 89787$$

Put the 'exchanged' numbers sitting on the line. This layout will help you when learning long multiplication.



11/5/20

4 Ops - Addition

- 1) ? - 30 = 310
- 2) 3,709 + 150 =
- 3) 368 + 5,039 =
- 4) ? = 8,909 + 174
- 5) 4,000 + 29 + 71 =
- 6) £7,999 + £1000 =
- 7) 297cm + 6m =
- 8) ? - 447g = 602g
- 9) $\frac{3}{7} + \frac{5}{7} =$
- 10) Frank had 198 stamps.
He collected 2 more.
How many stamps does
Frank have now?

- 1) ? - £1.78 = £90
- 2) 15.87kg + 3,666g + 9.9kg =
- 3) ? = £3,876 + £32.72
- 4) 3,893m + 39.3km + 9.99km =
- 5) ? = £17.71 + £872.27
- 6) 8.701kg = ? - 8,987g
- 7) 2.5L + 12,777mL =
- 8) $\frac{1}{5} + \frac{7}{30} =$
- 9) $\frac{1}{7} + \frac{1}{8} =$
- 10) Frank had 193 marbles.
Freya had 129 marbles. Fran
had 7 marbles.
How many marbles did Fran and
Frank have altogether?

What is the most
efficient method?



11/5/20 ANSWERS

4 Ops - Addition

- 1) $340 - 30 = 310$
- 2) $3,709 + 150 = 3,859$
- 3) $368 + 5,039 = 5,407$
- 4) $9,083 = 8,909 + 174$
- 5) $4,000 + 29 + 71 = 4,100$
- 6) $£7,999 + £1000 = £8,999$
- 7) $297\text{cm} + 6\text{m} = 897\text{cm}$
- 8) $1,049\text{g} - 447\text{g} = 602\text{g}$
- 9) $3/7 + 5/7 = 8/7$ or $1 \frac{1}{7}$
- 10) Frank had 198 stamps. He collected 2 more.

How many stamps does Frank have now? = 200 stamps

- 1) $£91.78 - £1.78 = £90$
- 2) $15.87\text{kg} + 3,666\text{g} + 9.9\text{kg} = 29,436\text{g}$
- 3) $£3,908.72 = £3,876 + £32.72$
- 4) $3,893\text{m} + 39.3\text{km} + 9.99\text{km} = 53,183\text{m}$
- 5) $£889.98 = £17.71 + £872.27$
- 6) $8.701\text{kg} = 17,688\text{g} - 8,987\text{g}$
- 7) $2.5\text{L} + 12,777\text{mL} = 15,277\text{mL}$
- 8) $1/5 + 7/30 = 13/30$
- 9) $1/7 + 1/8 = 15/56$
- 10) Frank had 193 marbles.
Freya had 129 marbles. Fran had 7 marbles.

How many marbles did Fran and Frank have altogether? = 200 marbles

$$1\text{km} = 1000\text{m}$$

$$1\text{m} = 100\text{cm}$$

$$1\text{cm} = 10\text{mm}$$

$$£1 = 100\text{p}$$

$$1\text{kg} = 1000\text{g}$$

$$1\text{L} = 1000\text{ml}$$



12/5/20

4 Ops - Subtraction

Written Method Layout:

3952 - 1475 =

Estimate:

4000 - 1500 = 2500

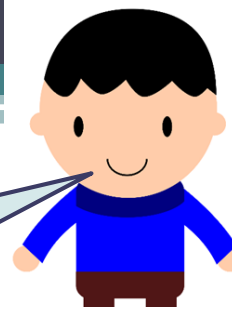
$$\begin{array}{r} 1 \\ 8 4 1 \\ 3 9 5 2 \\ - 1 4 7 5 \\ \hline 2 4 7 7 \end{array}$$

How can you check?

Inverse:

2477 + 1475 = 3952

Make sure that your working out is clear so that you and others can follow each step you have made when checking.



12/5/20

4 Ops - Subtraction

- 1) $7,776 - 77 =$
- 2) $8,023 - 324 =$
- 3) $9,389 - 8,198 =$
- 4) $8,190 - 5,909 =$
- 5) $£1000 - £10 =$
- 6) $6\text{m} - 60\text{cm} =$
- 7) $? \text{m} + 12\text{m} = 100\text{m}$
- 8) $? \text{cm} + 10\text{mm} = 2\text{cm}$
- 9) $3/14 - 8/14 =$
- 10) I have 201 marbles.
You take away 25.
How many are left?

- 1) $£77 - 77\text{p} =$
- 2) $8,907\text{m} - 8.38\text{km} =$
- 3) $2,909\text{mL} - 2.090\text{L} =$
- 4) $17.008\text{kg} - 7,878\text{g} =$
- 5) $13.3\text{kg} - 1,999\text{g} =$
- 6) $£800 - £8.08 =$
- 7) $67,555 + ? = 100,000$
- 8) $26/30 - 1/6 =$
- 9) $3/5 - 1/2 =$
- 10) A library has 4,911 books. You take away 24 books. How many are left?

What is the most
efficient method?



12/5/20 ANSWERS

4 Ops - Subtraction

- 1) $7,776 - 77 = 7,699$
- 2) $8,023 - 324 = 7,699$
- 3) $9,389 - 8,198 = 1,191$
- 4) $8,190 - 5,909 = 2,281$
- 5) $£1000 - £10 = £990$
- 6) $6m - 60cm = 540cm$
- 7) $88m + 12m = 100m$
- 8) $1cm + 10mm = 2cm$
- 9) $3/14 - 8/14 = 11/14$
- 10) I have 201 marbles. You take away 25. How many are left? = 176 marbles

- 1) $£77 - 77p = £76.23$
- 2) $8,907m - 8.38km = 527m$
- 3) $2,909mL - 2.090L = 819mL$
- 4) $17.008kg - 7,878g = 9,130g$
- 5) $13.3kg - 1,999g = 11,301g$
- 6) $£800 - £8.08 = £791.92$
- 7) $67,555 + 32,445 = 100,000$
- 8) $26/30 - 1/6 = 21/30$
- 9) $3/5 - 1/2 = 1/10$
- 10) A library has 4,911 books. You take away 24 books. How many are left? = 4,887 books

$$1km = 1000m$$

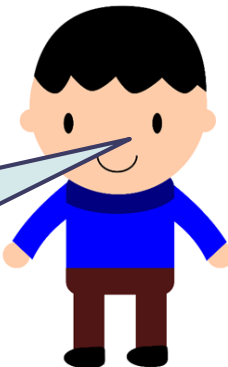
$$1m = 100cm$$

$$1cm = 10mm$$

$$£1 = 100p$$

$$1kg = 1000g$$

$$1L = 1000ml$$



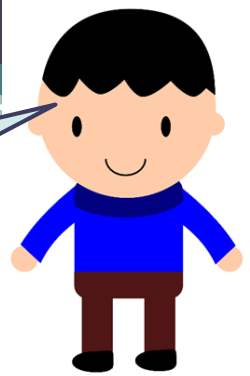
13/5/20

4 Ops - Multiplication

Written Method Layout:

Th	H	T	O
	3	4	2
X			7
<hr/>			
2	3	9	4

How can you check?



	H	T	O
		2	4
X			6
<hr/>			
	1	4	4

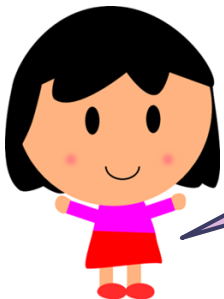
Use the expanded method initially:

	H	T	O
		2	4
X			6
<hr/>			
1	2	0	
<hr/>			
1	4	4	

→ Show the grid method alongside

X	20	4
6	120	24

$120 + 24 = 144$



Put the 'exchanged' numbers sitting on the line, not under. This layout will help you when learning long multiplication.

What is the most
efficient method?



13/5/20

4 Ops - Multiplication

- 1) $8^2 =$
- 2) $64 \times 10 =$
- 3) $100 \times 64 =$
- 4) $64 \times 1 =$
- 5) $62 \times 6 =$
- 6) $63 \times 8 =$
- 7) $65 \times 6 =$
- 8) $64 \times 8 =$
- 9) There are 11 nets.
Each net has 6
peaches in. How many
peaches are
there altogether?

- 1) $8^3 =$
- 2) $64.9 \times 1000 =$
- 3) $0 \times 64.9 =$
- 4) $64.9 \times 100 =$
- 5) $649 \times 9 =$
- 6) $8 \times 694 =$
- 7) $14 \times 694 =$
- 8) $\frac{1}{4} \times 3 =$
- 9) There are 1,000 boxes.
Each box has
* peaches in. How many
peaches are there
altogether?

(* = answer to green Q9)

What is the most
efficient method?



13/5/20 ANSWERS

4 Ops - Multiplication

- 1) $8^2 = 16$
- 2) $64 \times 10 = 640$
- 3) $100 \times 64 = 6,400$
- 4) $64 \times 1 = 64$
- 5) $62 \times 6 = 372$
- 6) $63 \times 8 = 504$
- 7) $65 \times 6 = 390$
- 8) $64 \times 8 = 512$
- 9) There are 11 nets. Each net has 6 peaches in. How many peaches are there altogether?
 $= 66 \text{ peaches}$

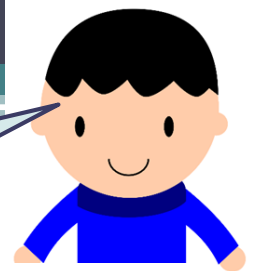
- 1) $8^3 = 512$
- 2) $64.9 \times 1000 = 64,900$
- 3) $0 \times 64.9 = 0$
- 4) $64.9 \times 100 = 6,490$
- 5) $649 \times 9 = 5,841$
- 6) $8 \times 694 = 5,552$
- 7) $14 \times 694 = 9,716$
- 8) $\frac{1}{4} \times 3 = \frac{3}{4}$
- 9) There are 1,000 boxes. Each box has * peaches in. How many peaches are there altogether? $= 66,000 \text{ peaches}$
(* = answer to green Q9)

14/5/20

4 Ops - Division

Written Method Layout:

How can you check?



$$196 \div 6 =$$

Estimate:

$$180 \div 6 = 30$$

$$\begin{array}{r} 032 \text{ r } 4 \\ 6 \overline{) 196} \\ \underline{18} \\ 16 \\ \underline{12} \\ 4 \end{array}$$

Inverse:

$$32 \times 6 + 4 = 196$$

$$196 \div 6 =$$

Estimate:

$$180 \div 6 = 30$$

$$\begin{array}{r} 6 \overline{) 196} \\ \underline{- 60} \quad 6 \times 10 \\ 136 \\ \underline{- 60} \quad 6 \times 10 \\ 76 \\ \underline{- 60} \quad 6 \times 10 \\ 16 \\ \underline{- 12} \quad 6 \times 2 \\ 4 \quad 32 \\ \text{Answer: } 32 \text{ R } 4 \end{array}$$

The number you are dividing by (6 in this case) goes first. It is 6 multiplied by 10.

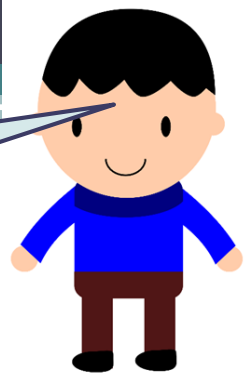
$$\text{OR } 32 \frac{4}{6}$$

Make sure that your working out is clear so that you and others can follow each step you have made when checking.



14/5/20

How can you write the remainder?



4 Ops - Division

Written Method Layout:

$$432 \div 5 =$$

Estimate:

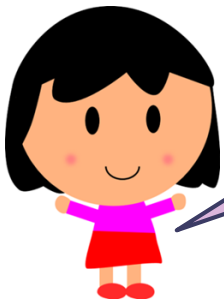
$$400 \div 5 = 80$$

NOTE: Remainders can also be expressed as a fraction or decimal.
For example: remainder 2, $\frac{2}{5}$ or 0.4

$$\begin{array}{r} 86 \text{ r } 2 \\ 5 \overline{) 432} \\ \underline{40} \\ 32 \\ \underline{30} \\ 2 \end{array}$$

Inverse:

$$86 \times 5 + 2 = 432$$



Make sure that your working out is clear so that you and others can follow each step you have made when checking.

14/5/20

What is the most **efficient** method?



4 Ops - Division

- 1) $42 \div 6 =$
- 2) $420 \div 6 =$
- 3) $426 \div 6 =$
- 4) $366 \div 6 =$
- 5) $488 \div 6 =$
- 6) $547 \div 6 =$
- 7) $720 \div 10 =$
- 8) $7,200 \div 100 =$
- 9) I have 72 shells. I divide them equally between 6 boxes. How many shells are in each box?

- 1) $? \times 10 = 89$
- 2) $89 \div 10 =$
- 3) $890 \div 100 =$
- 4) $8,900 \div 1000 =$
- 5) $8,989 \div 1,000 =$
- 6) $8,989 \div 9 =$
- 7) $8,989 \div 8 =$
- 8) $8,989 \div 11 =$
- 9) I have 960 pebbles. I divide them equally between 12 pots. How many pebbles are in each pot?

14/5/20 ANSWERS



4 Ops - Division

- 1) $42 \div 6 = 7$
- 2) $420 \div 6 = 70$
- 3) $426 \div 6 = 71$
- 4) $366 \div 6 = 61$
- 5) $488 \div 6 = 81 \text{ r } 2$
- 6) $547 \div 6 = 91 \text{ r } 1$
- 7) $720 \div 10 = 72$
- 8) $7,200 \div 100 = 72$
- 9) I have 72 shells. I divide them equally between 6 boxes. How many shells are in each box? = 12 shells

- 1) $8.9 \times 10 = 89$
- 2) $89 \div 10 = 8.9$
- 3) $890 \div 100 = 8.9$
- 4) $8,900 \div 1000 = 8.9$
- 5) $8,989 \div 1,000 = 8.989$
- 6) $8,989 \div 9 = 998 \text{ r } 7$
- 7) $8,989 \div 8 = 1,123 \text{ r } 5$
- 8) $8,989 \div 11 = 817 \text{ r } 2$
- 9) I have 960 pebbles. I divide them equally between 12 pots. How many pebbles are in each pot? = 80 pebbles