

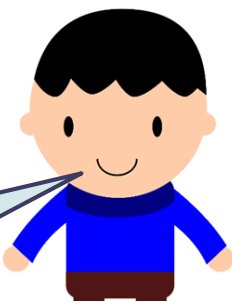
Daily times tables:

Don't forget to practise daily on Times Tables Rockstars to earn coins for your Avatar and help your class win the Battle of the Bands!

<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/>



How can you check?

Inverse:

$$96666 - 6879 = 89787$$

23/3/20

4 Ops - Addition

Written Method Layout:

$$89787 + 6879$$

Estimate:

$$90000 + 7000 = 97000$$

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

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



23/3/20

4 Ops - Addition

- 1) ? - 30 = 579
- 2) 3,209 + 300 =
- 3) 516 + 5,016 =
- 4) ? = 6,765 + 765
- 5) 5,805 + 75 + 25 =
- 6) £7,999 + £10 =
- 7) 202cm + 8m =
- 8) ? - 508g = 634g
- 9) $7/12 + 5/12 =$
- 10) Jez had 199 stamps. He collected 101 more.
How many stamps does Jez have now?

- 1) ? - 87p = £20
- 2) 11.57kg + 6,803g + 8.6kg =
- 3) ? = £4,808 + £17.99
- 4) 7,237m + 6.9km + 7.64km =
- 5) ? = £87.90 + £987.97
- 6) 7.02kg = ? - 6,008g
- 7) 6.98L + 8,698ml =
- 8) $2/5 + 9/15 =$
- 9) $1/3 + 2/5 =$
- 10) Jez had 867 marbles. Jaz had 198 marbles.
Jayden had 107 marbles.
How many marbles did Jaz and Jayden have altogether?

What is the most
efficient method?



23/3/20 ANSWERS

4 Ops - Addition

- 1) $609 - 30 = 579$
- 2) $3,209 + 300 = 3,509$
- 3) $516 + 5,016 = 5,532$
- 4) $7,530 = 6,765 + 765$
- 5) $5,805 + 75 + 25 = 5,905$
- 6) $£7,999 + £10 = £8,009$
- 7) $202\text{cm} + 8\text{m} = 1,002\text{cm}$
- 8) $1,142\text{g} - 508\text{g} = 634\text{g}$
- 9) $7/12 + 5/12 = 12/12$
 $= 1 \text{ whole}$

10) Jez had 199 stamps. He collected 101 more.

How many stamps does Jez have now? = 300 stamps

- 1) $£20.87 - 87\text{p} = £20$
- 2) $11.57\text{kg} + 6,803\text{g} + 8.6\text{kg} = 26,973\text{g}$
- 3) $£4,825.99 = £4,808 + £17.99$
- 4) $7,237\text{m} + 6.9\text{km} + 7.64\text{km} = 21,777\text{m}$
 $\text{OR } 21.777\text{km}$
- 5) $£1,075.87 = £87.90 + £987.97$
- 6) $7.02\text{kg} = 13,028\text{g} - 6,008\text{g}$
- 7) $6.98\text{L} + 8,698\text{ml} = 15,678\text{ml}$
- 8) $2/5 + 9/15 = 15/15 \text{ OR } 1 \text{ whole}$
- 9) $1/3 + 2/5 = 5/15 + 6/15$
 $(15 \text{ is a common denominator})$
 $= 11/15$

10) Jez had 867 marbles. Jaz had 198 marbles. Jayden had 107 marbles. How many marbles did Jaz and Jayden have altogether? = 305 marbles

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

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

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

$$£1 = 100\text{p}$$

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

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



24/3/20

4 Ops - Subtraction

Written Method Layout:

$$3952 - 1475 =$$

Estimate:

$$4000 - 1500 = 2500$$

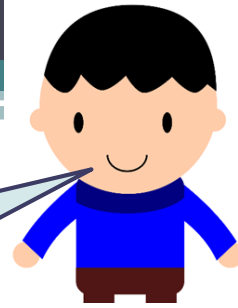
$$\begin{array}{r} 1 \\ 8 4 1 \\ 3 9 5 2 \\ - 1 4 7 5 \\ \hline 2 4 7 7 \end{array}$$

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.



24/3/20

4 Ops - Subtraction

- 1) $9,276 - 166 =$
- 2) $8,034 - 7,056 =$
- 3) $1,632 - 678 =$
- 4) $8,034 - 6,905 =$
- 5) $£300 - £30 =$
- 6) $6\text{m} - 60\text{cm} =$
- 7) $? \text{m} + 65\text{m} = 90\text{m}$
- 8) $? \text{cm} + 40\text{mm} = 40\text{cm}$
- 9) $14/15 - 7/15 =$
- 10) I have 121 marbles.
You take away 22.
How many are left?

- 1) $£20,000 - £222 =$
- 2) $8,564\text{m} - 5.9\text{km} =$
- 3) $3,290\text{mL} - 1.95\text{L} =$
- 4) $13.3\text{kg} - 12,654\text{g} =$
- 5) $16.86\text{kg} - 10,088\text{g} =$
- 6) $£900 - 99\text{p} =$
- 7) $72,999 + ? = 74,000$
- 8) $4/5 - 4/20 =$
- 9) $2/3 - 1/4 =$
- 10) A library has 7,008 books. You take away 17 books. How many are left?

What is the most
efficient method?



24/3/20 ANSWERS

4 Ops - Subtraction

- 1) $9,276 - 166 = 9,110$
- 2) $8,034 - 7,056 = 978$
- 3) $1,632 - 678 = 954$
- 4) $8,034 - 6,905 = 1,129$
- 5) $£300 - £30 = £270$
- 6) $6m - 60cm = 540cm$
- 7) $25m + 65m = 90m$
- 8) $36cm + 40mm = 40cm$
- 9) $14/15 - 7/15 = 7/15$
- 10) I have 121 marbles.
You take away 22. How many are left? = 99 marbles

- 1) $£20,000 - £222 = £19,778$
- 2) $8,564m - 5.9km = 2,664m$
- 3) $3,290mL - 1.95L = 1,340mL$
- 4) $13.3kg - 12,654g = 646g$
- 5) $16.86kg - 10,088g = 6,772g$
- 6) $£900 - 99p = £899.01$
- 7) $72,999 + 1,001 = 74,000$
- 8) $4/5 - 4/20 = 12/20$
- 9) $2/3 - 1/4 = 8/12 - 3/12$

(15 is a common denominator)
= $5/12$

- 1) A library has 7,008 books.
You take away 17 books.
How many are left? = 6,991 books

$$1km = 1000m$$

$$1m = 100cm$$

$$1cm = 10mm$$

$$£1 = 100p$$

$$1kg = 1000g$$

$$1L = 1000ml$$



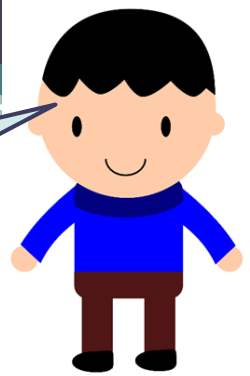
25/3/20

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

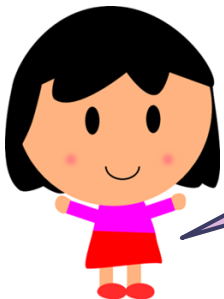
Use the expanded method initially:

	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.

25/3/20

4 Ops - Multiplication

What is the most
efficient method?



- 1) $5^2 =$
- 2) $64 \times 10 =$
- 3) $1 \times 64 =$
- 4) $64 \times 100 =$
- 5) $63 \times 3 =$
- 6) $53 \times 3 =$
- 7) $73 \times 3 =$
- 8) $83 \times 3 =$
- 9) There are 12 nets.
Each net has 4
oranges in. How many
oranges are
there altogether?

- 1) $6^3 =$
- 2) $87.5 \times 0 =$
- 3) $10 \times 87.5 =$
- 4) $87.5 \times 1,000 =$
- 5) $875 \times 8 =$
- 6) $12 \times 875 =$
- 7) $12 \times 758 =$
- 8) $758 \times 13 =$
- 9) There are 200 boxes.
Each box has
* oranges in. How many
oranges are there
altogether?

(* = answer to green Q9)

25/3/20 ANSWERS

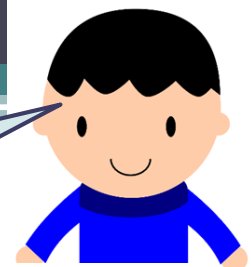
4 Ops - Multiplication

What is the most
efficient method?



- 1) $5^2 = 25$
- 2) $64 \times 10 = 640$
- 3) $1 \times 64 = 64$
- 4) $64 \times 100 = 6,400$
- 5) $63 \times 3 = 189$
- 6) $53 \times 3 = 159$
- 7) $73 \times 3 = 219$
- 8) $83 \times 3 = 249$
- 9) There are 12 nets. Each net has 4 oranges in. How many oranges are there altogether?
= 48 oranges

- 1) $6^3 = 216$
- 2) $87.5 \times 0 = 0$
- 3) $10 \times 87.5 = 875$
- 4) $87.5 \times 1,000 = 87,500$
- 5) $875 \times 8 = 7,000$
- 6) $12 \times 875 = 10,500$
- 7) $12 \times 758 = 9,096$
- 8) $758 \times 13 = 9,854$
- 9) There are 200 boxes. Each box has * oranges in. How many oranges are there altogether? = 9,600 oranges
(* = answer to green Q9)



How can you check?

26/3/20

4 Ops - Division

Written Method Layout:

$$196 \div 6 =$$

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:

$$180 \div 6 = 30$$

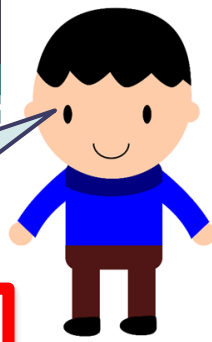
$$\begin{array}{r} 6 \overline{) 196} \\ \underline{- 60} \quad 6 \times 10 \\ 136 \\ \underline{- 60} \quad 6 \times 10 \\ 76 \\ \underline{- 60} \quad 6 \times 10 \\ 16 \\ \underline{- 12} \quad 6 \times 2 \\ 4 \quad 32 \\ \text{Answer: } 32 \text{ R } 4 \end{array}$$

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.





What is the most
efficient method?

26/3/20

4 Ops - Division

- 1) $24 \div 4 =$
- 2) $424 \div 4 =$
- 3) $360 \div 4 =$
- 4) $364 \div 4 =$
- 5) $365 \div 4 =$
- 6) $821 \div 4 =$
- 7) $360 \div 10 =$
- 8) $3,600 \div 100 =$
- 9) I have 44 beads. I divide them equally between 4 boxes. How many beads are in each box?

- 1) $? \times 10 = 68$
- 2) $68 \div 10 =$
- 3) $6,800 \div 100 =$
- 4) $6,800 \div 1000 =$
- 5) $6,860 \div 1,000 =$
- 6) $6,867 \div 8 =$
- 7) $7,642 \div 8 =$
- 8) $8,964 \div 12 =$
- 9) I have 9,600 beads. I divide them equally between 80 boxes. How many beads are in each box?



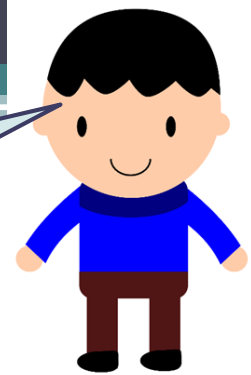
What is the most
efficient method?

26/3/20 ANSWERS

4 Ops - Division

- 1) $24 \div 4 = 6$
- 2) $424 \div 4 = 106$
- 3) $360 \div 4 = 90$
- 4) $364 \div 4 = 91$
- 5) $365 \div 4 = 91 \text{ r } 1$
- 6) $821 \div 4 = 205 \text{ r } 1$
- 7) $360 \div 10 = 36$
- 8) $3,600 \div 100 = 36$
- 9) I have 44 beads. I divide them equally between 4 boxes. How many beads are in each box? = 11 beads

- 1) $6.8 \times 10 = 68$
- 2) $68 \div 10 = 6.8$
- 3) $6,800 \div 100 = 68$
- 4) $6,800 \div 1000 = 6.8$
- 5) $6,860 \div 1,000 = 6.86$
- 6) $6,867 \div 8 = 858 \text{ r } 3$
- 7) $7,642 \div 8 = 955 \text{ r } 2$
- 8) $8,964 \div 12 = 747$
- 9) I have 9,600 beads. I divide them equally between 80 boxes. How many beads are in each box?
= 120 beads



How can you check?

26/3/20

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.