

Arithmetic: Spring Term 1.

Mrs Brown's Group: Week 1.

Thursday 7th January 2021.

Division

Can use efficient written methods of division including short and long division.

3 minutes to finish and get them correct!

3 Minute Drill

$66 \div 11 =$	$60 \div 10 =$	$132 \div 11 =$	$120 \div 10 =$	$88 \div 8 =$
$20 \div 5 =$	$22 \div 2 =$	$60 \div 5 =$	$100 \div 10 =$	$40 \div 10 =$
$60 \div 6 =$	$18 \div 2 =$	$24 \div 3 =$	$5 \div 1 =$	$16 \div 8 =$
$8 \div 4 =$	$12 \div 6 =$	$84 \div 7 =$	$8 \div 8 =$	$66 \div 6 =$
$35 \div 5 =$	$108 \div 9 =$	$110 \div 11 =$	$12 \div 12 =$	$56 \div 8 =$
$48 \div 4 =$	$36 \div 6 =$	$80 \div 10 =$	$2 \div 2 =$	$4 \div 1 =$
$21 \div 7 =$	$1 \div 1 =$	$14 \div 2 =$	$12 \div 4 =$	$96 \div 8 =$
$14 \div 7 =$	$6 \div 2 =$	$80 \div 8 =$	$4 \div 4 =$	$8 \div 1 =$
$33 \div 3 =$	$30 \div 6 =$	$7 \div 7 =$	$11 \div 1 =$	$42 \div 7 =$
$54 \div 6 =$	$48 \div 6 =$	$35 \div 7 =$	$33 \div 11 =$	$2 \div 1 =$
$12 \div 3 =$	$30 \div 5 =$	$90 \div 10 =$	$9 \div 1 =$	$36 \div 12 =$
$28 \div 4 =$	$18 \div 9 =$	$6 \div 6 =$	$72 \div 12 =$	$10 \div 1 =$

Before you write
the date do these:

Starter: How can I solve these questions?

Solve each division problem.

$$6 \overline{)8.04}$$

$$4 \overline{)9.68}$$

$$9 \overline{)3.33}$$

$$7 \overline{)4.20}$$

$$2 \overline{)4.74}$$

$$7 \overline{)4.41}$$

$$8 \overline{)3.84}$$

$$2 \overline{)9.16}$$

$$4 \overline{)6.36}$$

Let's watch this video to help us remember the steps of long division!

<https://www.youtube.com/watch?v=rdWUfpo7KXw>



Division Algorithm
(Long Division)
REMEMBER THE STEPS!



Does = Divide



McDonald's = Multiply



Sell = Subtract



Burgers = Bring Down



Raw? = Repeat



**IN YOUR BOOK, CAN YOU COME UP WITH
YOUR OWN ACRONYM FOR LONG DIVISION
TO HELP YOU REMEMBER THE STEPS:**

D	Divide
M	Multiply
S	Subtract
B	Bring Down
R	Repeat

Can use efficient written methods of division
including short and long division

$$653 \div 24 =$$

Long division

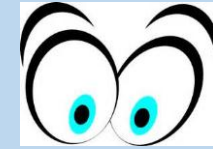


$$\begin{array}{r} 24 \overline{) 653} \\ \underline{48} \\ 173 \end{array}$$

Can use efficient written methods of division including short and long division

$$653 \div 24 =$$

Long division



$$\begin{array}{r} 27 \text{ r}5 \\ 24 \overline{) 653} \\ \underline{48} \\ 173 \\ \underline{168} \\ 5 \end{array}$$

$$24 \times 10 = 240$$

$$24 \times 5 = 120$$

$$24 \times 6 = 144$$

$$24 \times 7 = 168$$

So

$$653 \div 24 = 27 \text{ r}5$$

Remember: we can use jottings if the numbers are too big to work out in our heads.

Can use efficient written methods of division
including short and long division

Your turn

Use long division to complete these calculations:

$$39 \overline{)14469}$$

$$30 \overline{)29220}$$

$$52 \overline{)7488}$$

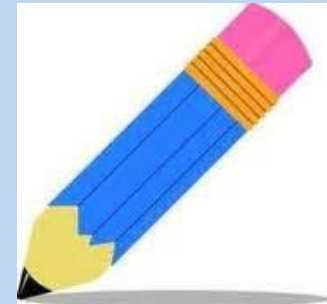
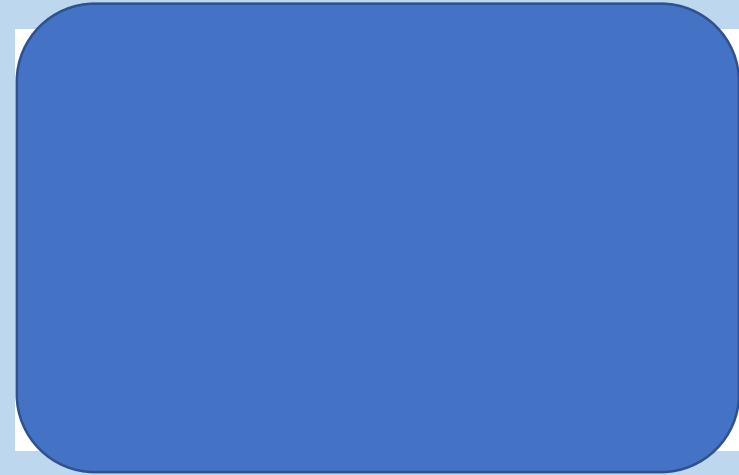
$$55 \overline{)31020}$$

$$77 \overline{)29568}$$

$$23 \overline{)8878}$$

$$56 \overline{)54264}$$

$$73 \overline{)9563}$$



Your Turn:

Use long division to complete these calculations:

$$84 \overline{) 3743}$$

$$93 \overline{) 1116}$$

$$47 \overline{) 3008}$$

$$97 \overline{) 5333}$$

$$39 \overline{) 14469}$$

$$30 \overline{) 29220}$$

$$52 \overline{) 7488}$$

$$55 \overline{) 31020}$$

We do:

Problem Solving

317 people are going on a school coach trip. Each coach will hold 28 passengers. How many coaches are needed?



Your Turn:

Use long division to complete these calculations:

Find the Missing Number

1) $X \div 32 = 26$ $X = \underline{\quad}$ 2) $X \div 31 = 13$ $X = \underline{\quad}$

3) $X \div 36 = 12$ $X = \underline{\quad}$ 4) $X \div 15 = 36$ $X = \underline{\quad}$

5) $323 \div X = 19$ $X = \underline{\quad}$ 6) $X \div 29 = 12$ $X = \underline{\quad}$

7) $X \div 29 = 37$ $X = \underline{\quad}$ 8) $660 \div X = 30$ $X = \underline{\quad}$

9) $828 \div X = 23$ $X = \underline{\quad}$ 10) $X \div 15 = 34$ $X = \underline{\quad}$

$$48 \overline{)1068}$$

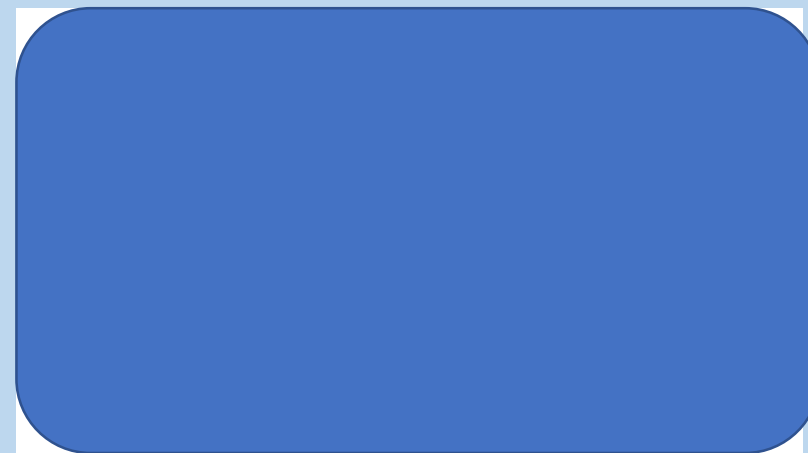
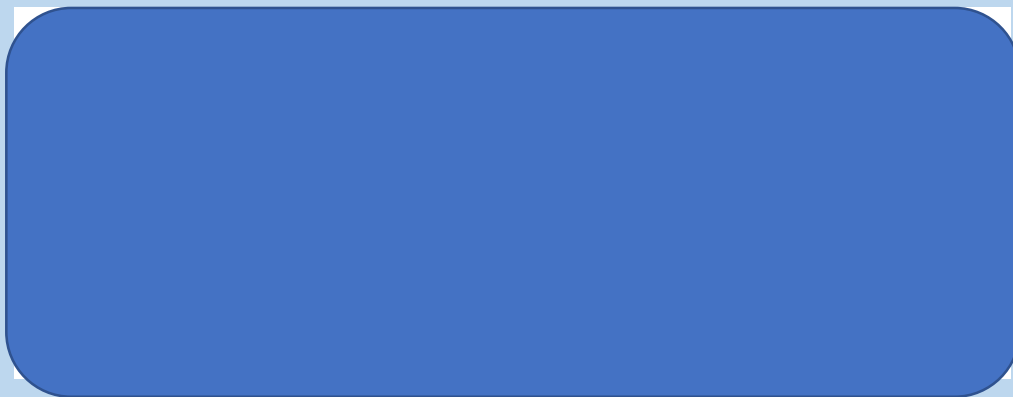
$$48 \overline{)1548}$$

$$52 \overline{)2522}$$

$$28 \overline{)231}$$

$$85 \overline{)612}$$

$$64 \overline{)272}$$



Use RUCSAC to solve word problems:



Read



Read the question carefully



Underline



Underline the keywords and numbers



Choose



Choose the correct operation(s) and a mental or written method of calculation.



Solve



Solve it! Make sure you follow the steps.



Answer



Check that you've answered the question. What did you need to find out in the first place?



Check



Check your answer. Use another method or checking technique (was it close to your estimate?)

**REMEMBER
TO USE YOUR
RUCSAC
WHEN
PROBLEM
SOLVING!**

You do:

Problem Solving

- 1) A teacher has 210 pieces of candy. If there are 42 students, 8 of whom are boys, if divided evenly, how many pieces of candy will each student get?
- 2) Keith's shelves hold 38 books each. Keith has books by 6 authors. How many shelves will Keith need if Keith has 180 books?
- 3) Benny, Sandy, Joan, and Melanie each bought 200 Pokemon cards which come in packs of 20. Sandy also has 13 baseball cards. How many packs of Pokemon cards do they have in all?
- 4) There are 680 students at a school, and 370 of them are boys. If each classroom holds 30 students, how many classrooms are needed at the school?
- 5) Keith bought 675 crayons that came in packs of 15. There were 8 colors of crayons. How many packs of crayons did Keith buy?

