

Class 11 Maths

Monday

Mental Arithmetic:

I would like you all to spend some time on Times Tables Rockstars today. Please try and spend at least **30 minutes on TTRs**. It is up to you what you choose to go on, but I would like you to complete another **soundcheck** today so that I can see how you are doing. Your login is the same as the one you use in school.

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

Multiplication and division are really important for your work this week, so after spending time on TTRS and carrying out your soundcheck, use the rest of your maths time to carry out the basic maths division and multiplication questions below. Once you finish all of these, see if you can make your own and focus on the times tables that you find more difficult.

- | | |
|-------------------|--------------------|
| 1) $12 \div 4 =$ | 2) $24 \div 6 =$ |
| 3) $8 \times 8 =$ | 4) $7 \times 3 =$ |
| 5) $35 \div 5 =$ | 6) $81 \div 9 =$ |
| 7) $8 \times 9 =$ | 8) $11 \times 6 =$ |

Tuesday

In order for you to be able to work out answers quickly and easily, you need to be fluent with your multiplication and division. Have a go at the following questions:

- | | |
|------------------|--------------------|
| 1) $32 \div 8 =$ | 6) $2 \times 12 =$ |
| 2) $21 \div 3 =$ | 7) $9 \times 4 =$ |
| 3) $40 \div 5 =$ | 8) $11 \times 3 =$ |
| 4) $12 \div 6 =$ | 9) $6 \times 4 =$ |
| 5) $42 \div 7 =$ | 10) $5 \times 9 =$ |

Now that you have practised your multiplication and division, answer the following questions. *Hint: you need to work out the calculation in brackets first and then do the other calculation.*

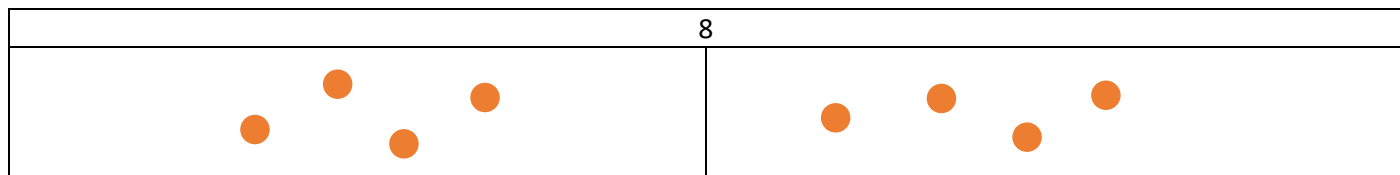
- $(72 \div 9) \times 3 =$
- $(5 \times 4) \div 2 =$
- $(30 \div 6) \times 9 =$
- $(7 \times 4) \div 2 =$

Wednesday (Fluency)

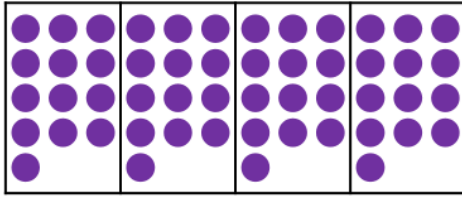
Focus: to find fractions of a quantity

Work out the answers to each of the questions in the table. To work out a fraction of an amount, you need to look at the denominator first. This tells you how many groups you need. For example, if you are finding $\frac{1}{2}$ of 8, the question that is being asked is $8 \div 2$? The number 8 needs to be split into two equal groups. You can do this using a bar model.

The quantity is the total and this will go in the top bar. You have 2 groups underneath due to you finding half of 8. Place one (of your 8 circles) into each of the groups until you have ran out of counters. Count how many counters are in one group (as the numerator tells you how many groups you want). Your answer would be 4.

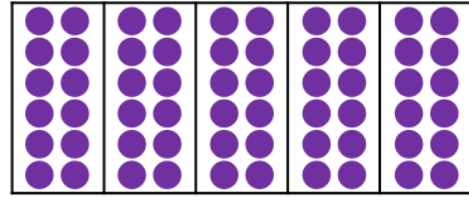


a. Find three quarters of fifty-two.



$$\frac{3}{4} \text{ of } 52 = \square$$

b. Find two fifths of sixty.



$$\frac{2}{5} \text{ of } 60 = \square$$

a. Use counters to match the calculation to the answer.

A. $\frac{3}{5}$ of 35

63

B. $\frac{9}{10}$ of 70

21

C. $\frac{3}{7}$ of 56

45

D. $\frac{5}{8}$ of 72

24

b. Use counters to match the calculation to the answer.

A. $\frac{5}{6}$ of 36

24

B. $\frac{2}{3}$ of 36

33

C. $\frac{5}{7}$ of 28

30

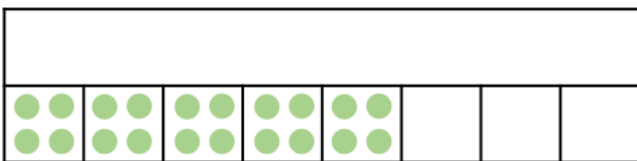
D. $\frac{3}{4}$ of 44

20

Friday

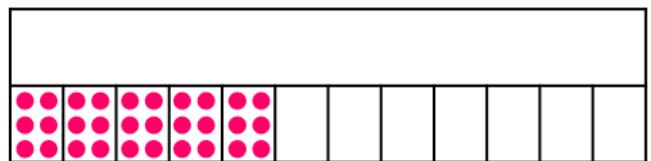
Today you are going to be given the answer to a calculation and you need to find the missing number.

a. Marco is finding fractions of an amount. He knows that $\frac{5}{8}$ of his number is 20.



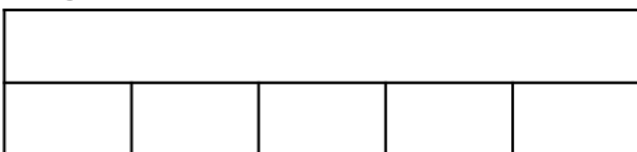
Use the bar model to find the whole.

b. Millie is finding fractions of an amount. She knows that $\frac{5}{12}$ of his number is 30.



Use the bar model to find the whole.

a. $\frac{3}{5}$ of a number is 15.



Complete the bar model to find the whole.

b. $\frac{7}{15}$ of a number is 21.



Complete the bar model to find the whole.