EDGAR STAMMERS PRIMARY ACADEMY

Y6 MATHS WORKSHOP

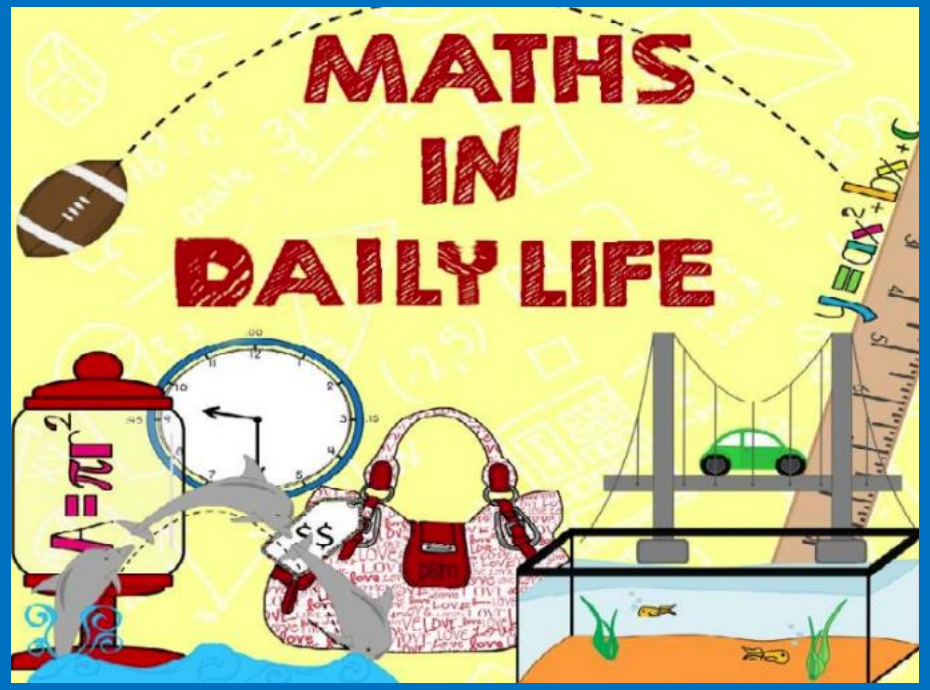
11th February 2019

AIMS

- To inform about maths expectations and provide hints and tips for how you can help your child at home.
- To explore the content and expectations of formative and statutory assessments.
- To model the formal written methods.

It’s not all about SATS…..

- Telling the time
- Reading timetables
- Finances
- Recipes
- Sale shopping



ARITHMETIC

- 30 minutes to answer 36 questions.
- The key to the Arithmetic paper is pupils identifying questions that could be carried out mentally (or with jottings) vs those that need a fuller written method.
- If you try and work out every question with a written method, you will run out of time to complete the paper.
- The content will draw on all learning from Year 3 to Year 6.

4 OPERATIONS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

- Key is deciding if the question can be answered mentally (with jottings), or if a formal method needs to be used.
- Place value – lining up the decimal point.
- Adding place holders.
- Writing key facts
- Accuracy!

ADDITION (QUESTIONS 1, 3, 5, 8, 20)

1 979 + 100 =

1 mark

3 $6.1 + 0.3 =$

1 mark

5 1,034 + 586 =

1 mark

8 $2.5 + 0.05 =$

1 mark

20 5,756 + 8,643 =

1 mark

SUBTRACTION (QUESTIONS 7, 14, 22, 24, 28)

7 472 – 9 =

1 mark

14 50,000 – 500 =

1 mark

22 $12 - 6.01 =$

1 mark

24 15.4 – 8.88 =

1 mark

28 234,897 – 45,996 =

1 mark

MULTIPLICATION (QUESTIONS 2, 4, 9, 12, 15, 18, 23, 29)

2 $123 \times 2 =$

1 mark

4 $24 \times 3 =$

1 mark

9 $5 \times 4 \times 7 =$

1 mark

12 $1.28 \times 100 =$

1 mark

15 $100 \times 100 =$

1 mark

18 $1.52 \times 6 =$

1 mark

23

$$\begin{array}{r} 54 \\ \times\ 23 \\ \hline \end{array}$$

Show your method

2 marks

29

$$\begin{array}{r} 678 \\ \times \quad 54 \\ \hline \end{array}$$

Show your method

2 marks

DIVISION (QUESTIONS 6, 11, 16, 21, 25, 31)

6 $48 \div 6 =$

1 mark

11 $630 \div 9 =$

1 mark

16 $1{,}440 \div 12 =$

1 mark

21 7,505 ÷ 5 =

1 mark

25

$13\overline{)330\,16}$

Show your method

2 marks

34

$37\overline{)2331}$

Show your method

2 marks

SQUARE NUMBERS (QUESTION 13)

1^2	1	×	1	=	1
2^2	2	×	2	=	4
3^2	3	×	3	=	9
4^2	4	×	4	=	16
5^2	5	×	5	=	25
6^2	6	×	6	=	36

7^2	7	×	7	=	49
8^2	8	×	8	=	64
9^2	9	×	9	=	81
10^2	10	×	10	=	100
11^2	11	×	11	=	121
12^2	12	×	12	=	144

The product of a number multiplied by itself.

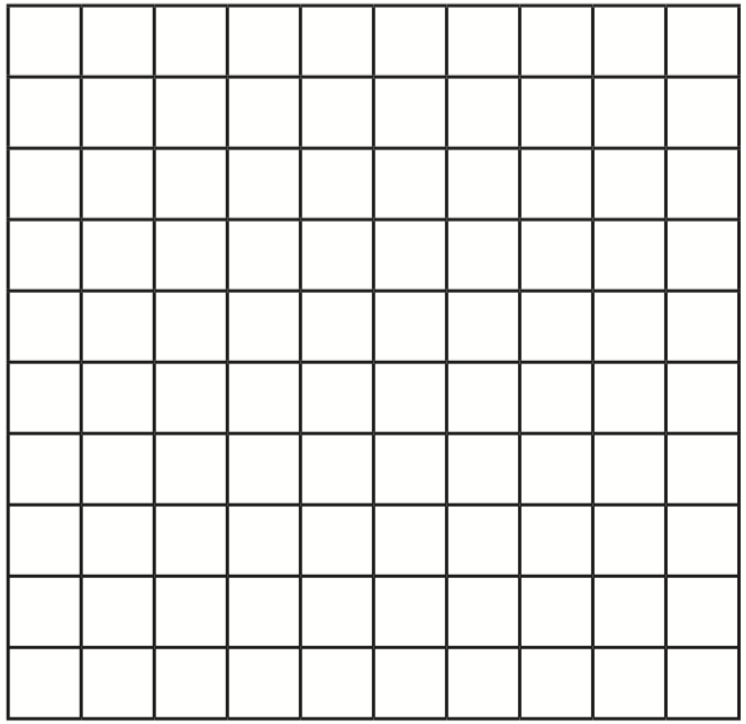
***e.g.* 10 × 10 = 100**

which can be shown as:

$10^2 = 100$

10 squared = 100

10 × 10 = 100



CUBE NUMBERS

1^3	1 x 1 x 1 =	1
2^3	2 x 2 x2 =	8
3^3	3 x 3 x 3 =	27
4^3	4 x 4 x 4 =	64
5^3	5 x 5 x 5 =	125

6^3	6 x 6 x 6 =	216
7^3	7 x 7 x 7 =	343
8^3	8 x 8 x 8 =	512
9^3	9 x 9 x 9 =	729
10^3	10x10x10=	1000

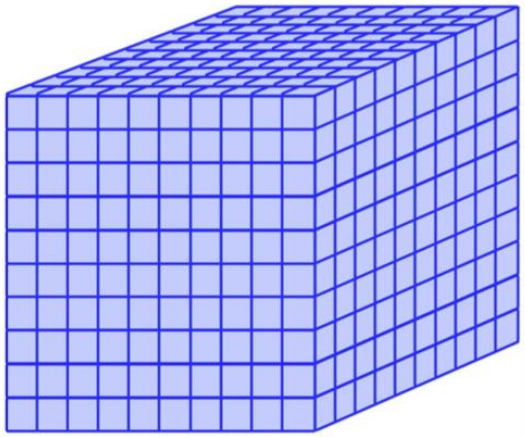
Formed by multiplying a digit by itself 3 times.

e.g. 10 x 10 x 10 = 1000 which can be shown as:

$10^3 = 1000$

10 cubed = 1000

10x10x10 cube

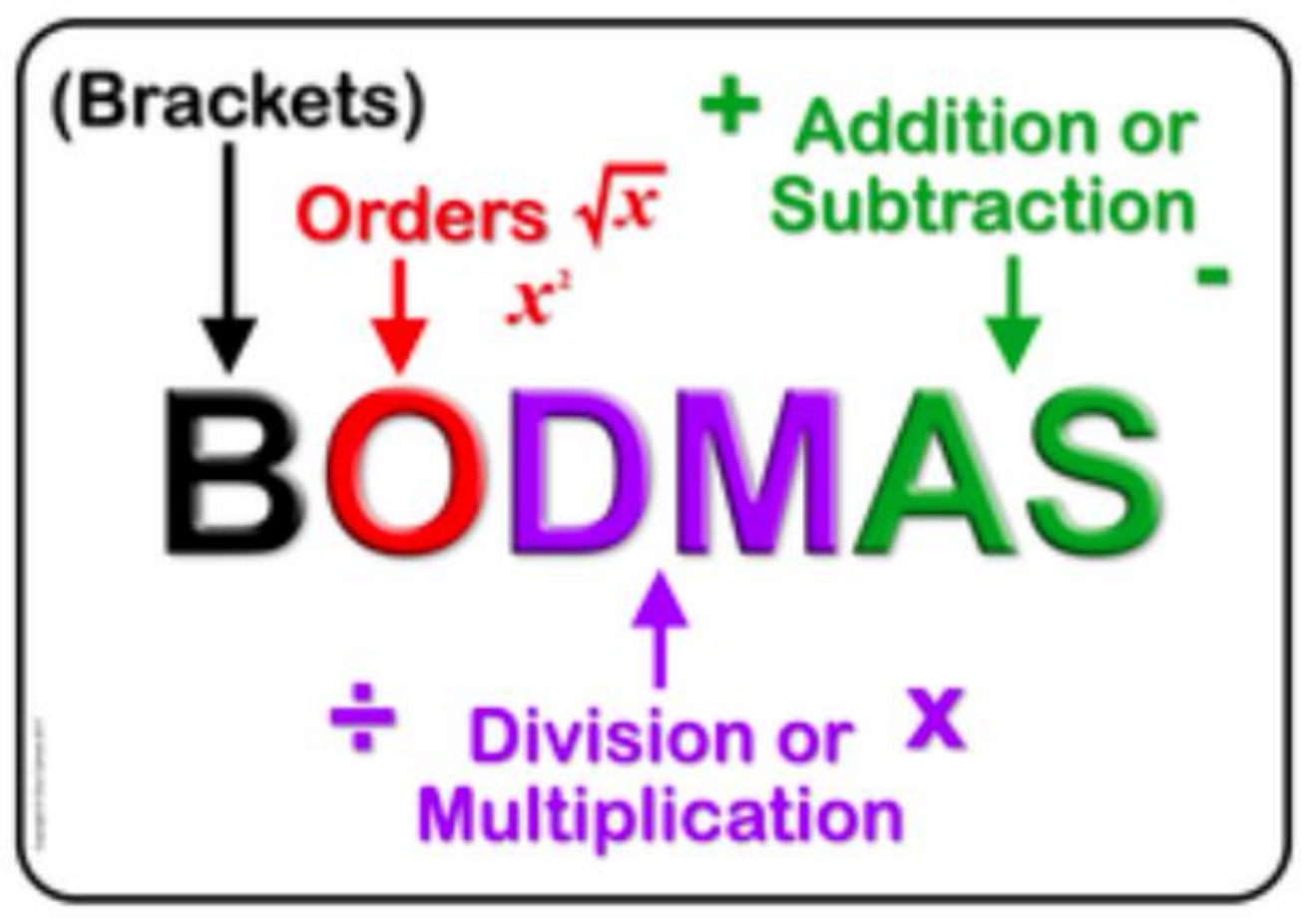


13

$4^2 =$

1 mark

BODMAS (QUESTION 31)



Always work left to right!

31

$20 - 4 \times 2 =$

1 mark

PERCENTAGES (QUESTIONS 17, 21)

Children need to know how to find these percentages.
If they can find these, they can find all percentages up to 100%

50%
25%
75%
10%
5%
1%

How do we find these percentages?

17 20% of 1,500 =

1 mark

27 95% of 240 =

1 mark

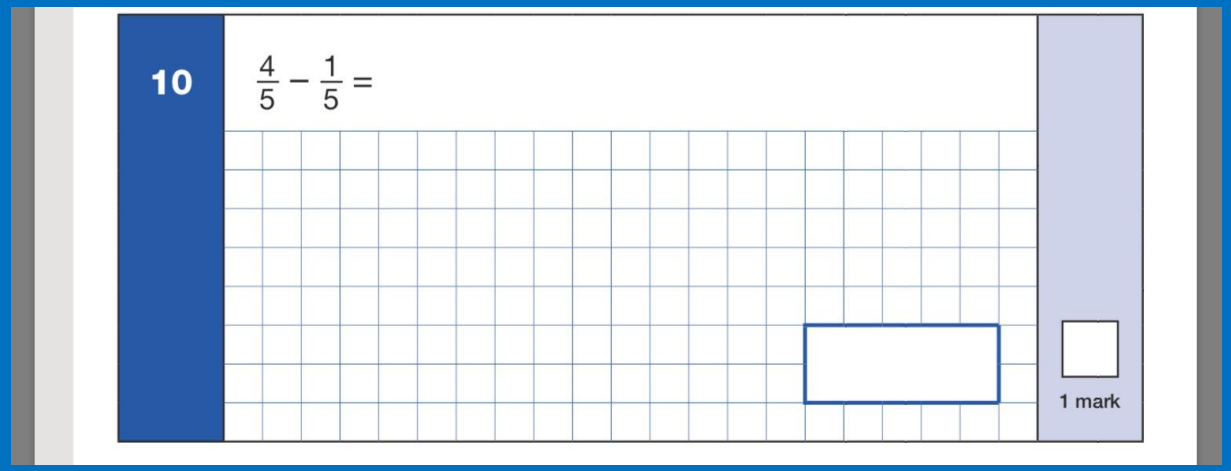
FRACTIONS (QUESTIONS 10, 19, 26, 30, 32, 33, 35, 36)

- Fractions make up a large percentage of the test.

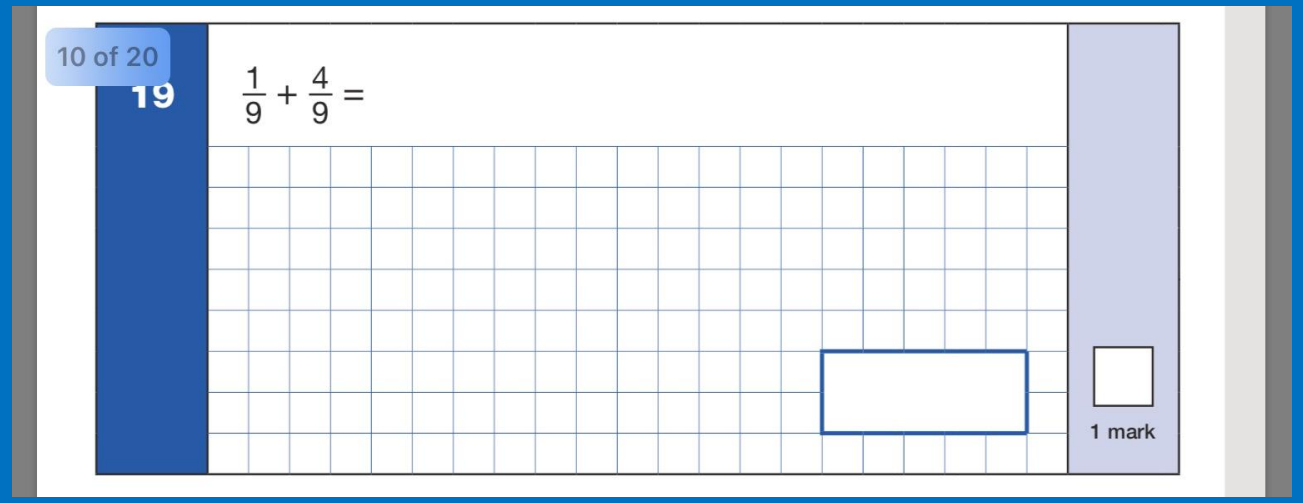
Top Tips

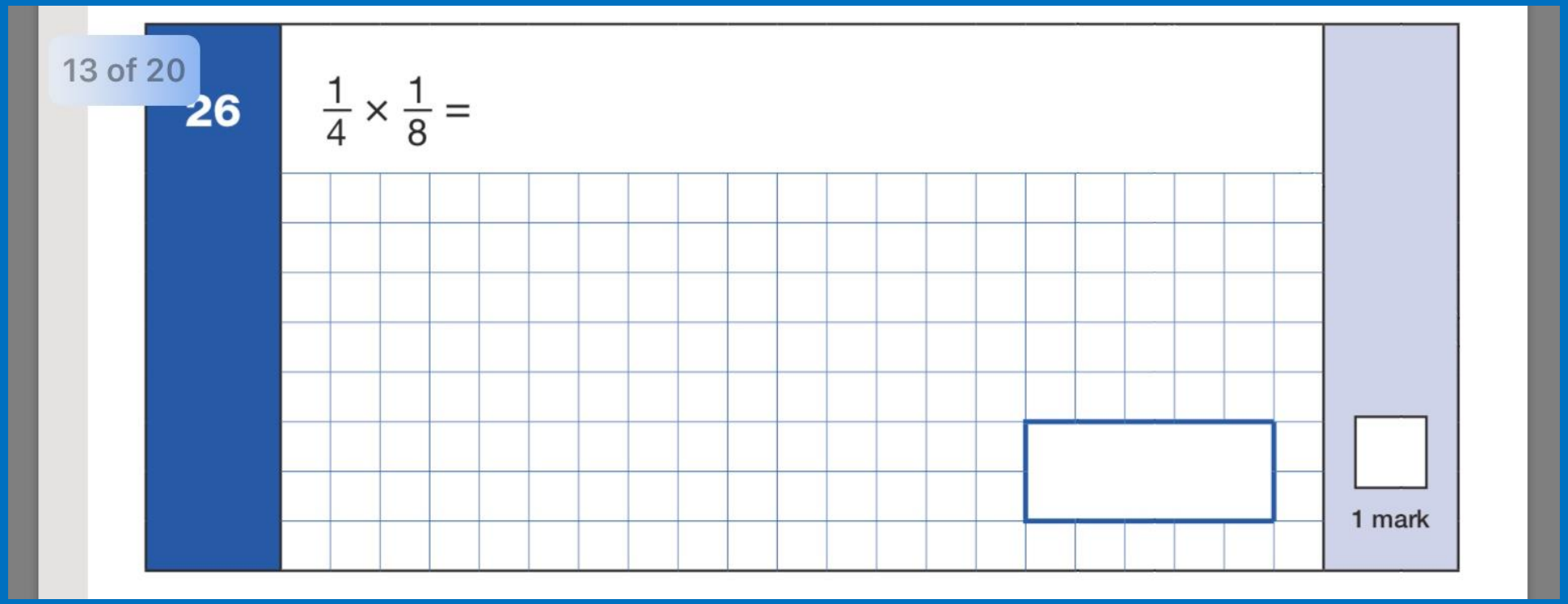
- If there is a whole number, it always goes over a denominator of 1

FRACTIONS (QUESTIONS 10, 19, 26, 30, 32, 33, 35, 36)



If the denominator is the same, just add/subtract the numerators





The easiest of all fractions. Multiply the numerators, multiply the denominators!

30 $17 \times 1\frac{1}{2} =$

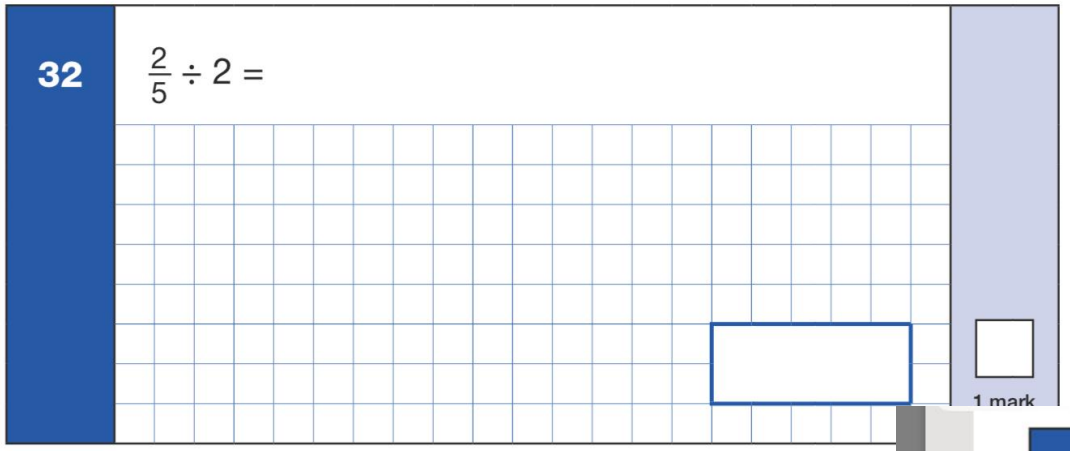
1 mark

1) Whole number over a denominator of 1.

2) Convert the mixed number to an improper fraction.

3) Multiply the numerators.

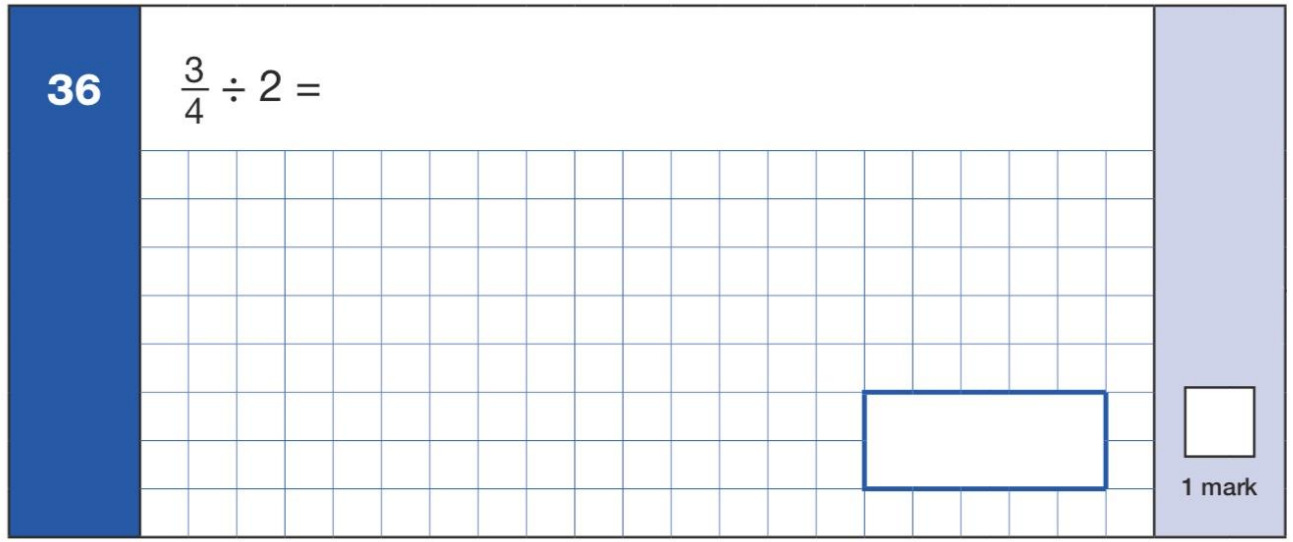
4) Multiply the denominators.



1) Whole numbers over a denominator of 1
2) Flip the second fraction.

3) Multiply the numerators.

4) Multiply the denominators.



35 $\frac{3}{4} + \frac{7}{8} =$

1 mark

1) Find a common denominator.

2) Make the fractions equivalent over the same denominator.

3) Add the numerators.

4) Leave the denominator as it is.

33 $1\frac{1}{5} - \frac{1}{4} =$

1 mark

THANK YOU FOR ATTENDING

Please fill in an evaluation form as we would welcome the feedback. Any suggestions, or requests for extra support, will be listened to.

Please take the packs home with you and see if you can answer any more with your child. We sat Maths papers last week for assessment so we can target support. Once they are marked, they too can be sent home so you can see how they are doing.