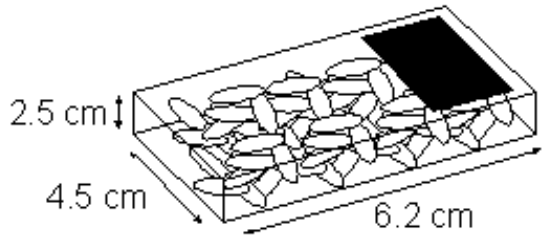
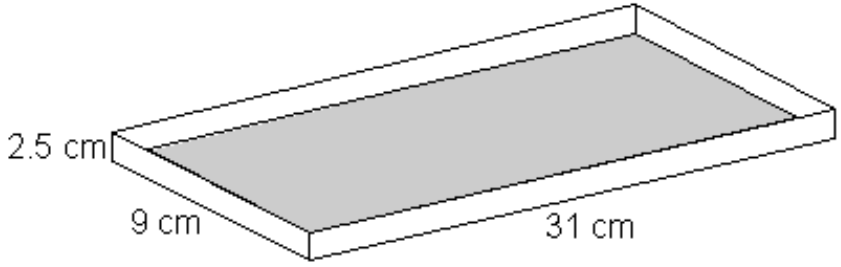
WELCOME TO SEJ

INSPIRING THE LEARNING JOURNEY

Boxes measure 2.5cm by 4.5cm by 6.2cm.

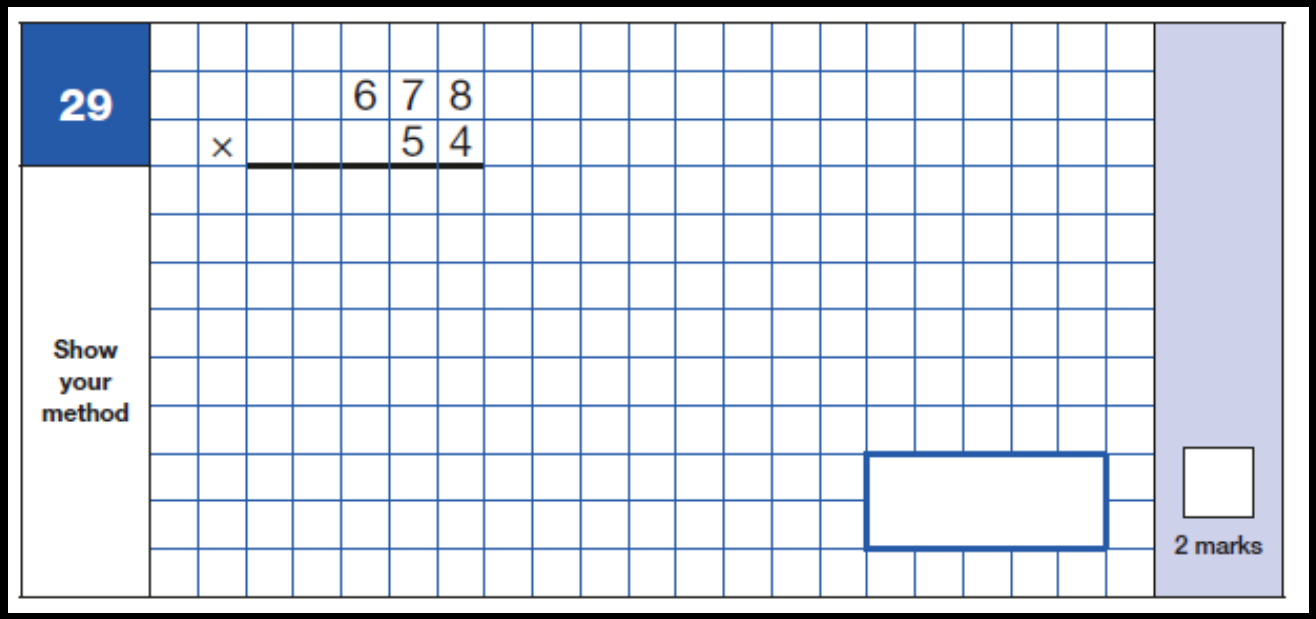


The shopkeeper puts them in a tray.



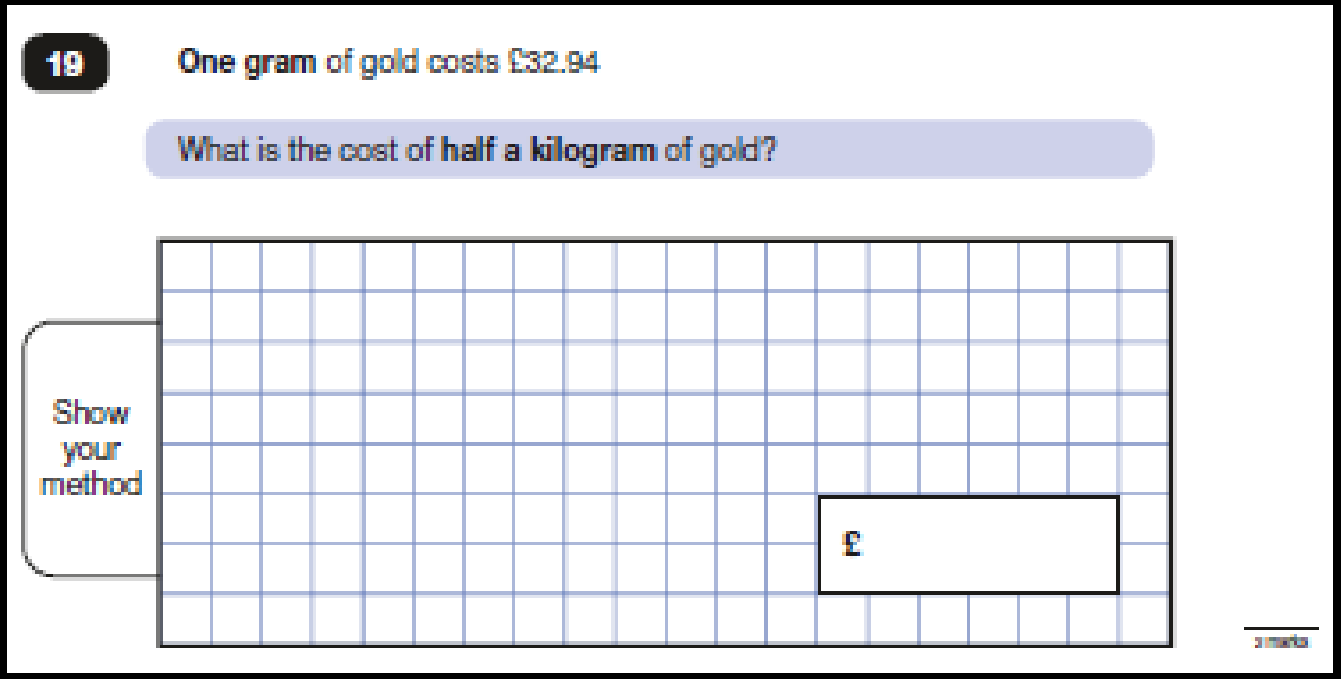
Work out the **largest** number of boxes which can lie flat in the tray.

RAISED EXPECTATIONS



Question from sample KS2 arithmetic paper. Contains abut 36 questions that need to be completed in 30 mins.

RAISED EXPECTATIONS


19

One gram of gold costs £32.94

What is the cost of half a kilogram of gold?

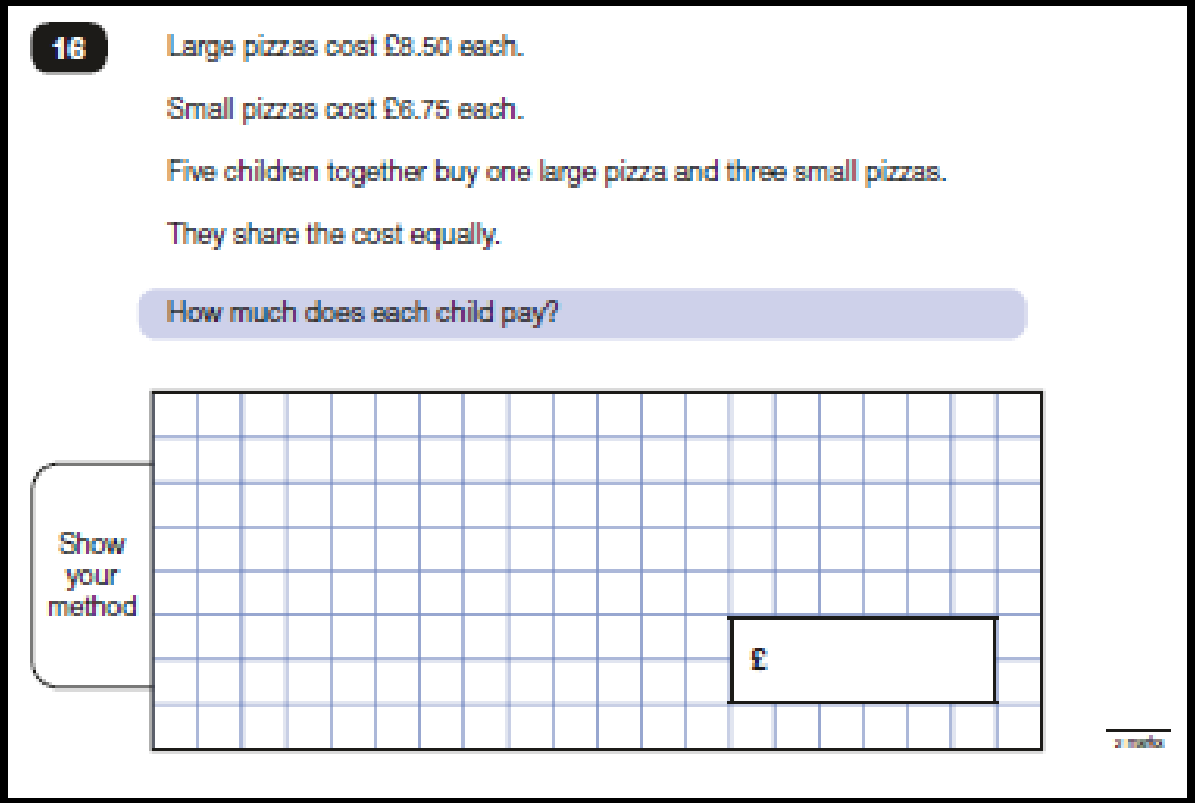
Show your method

£

3 marks

Question from sample KS2 reasoning paper. Contains about 20 questions that need to be completed in 40 mins.

RAISED EXPECTATIONS



18 Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

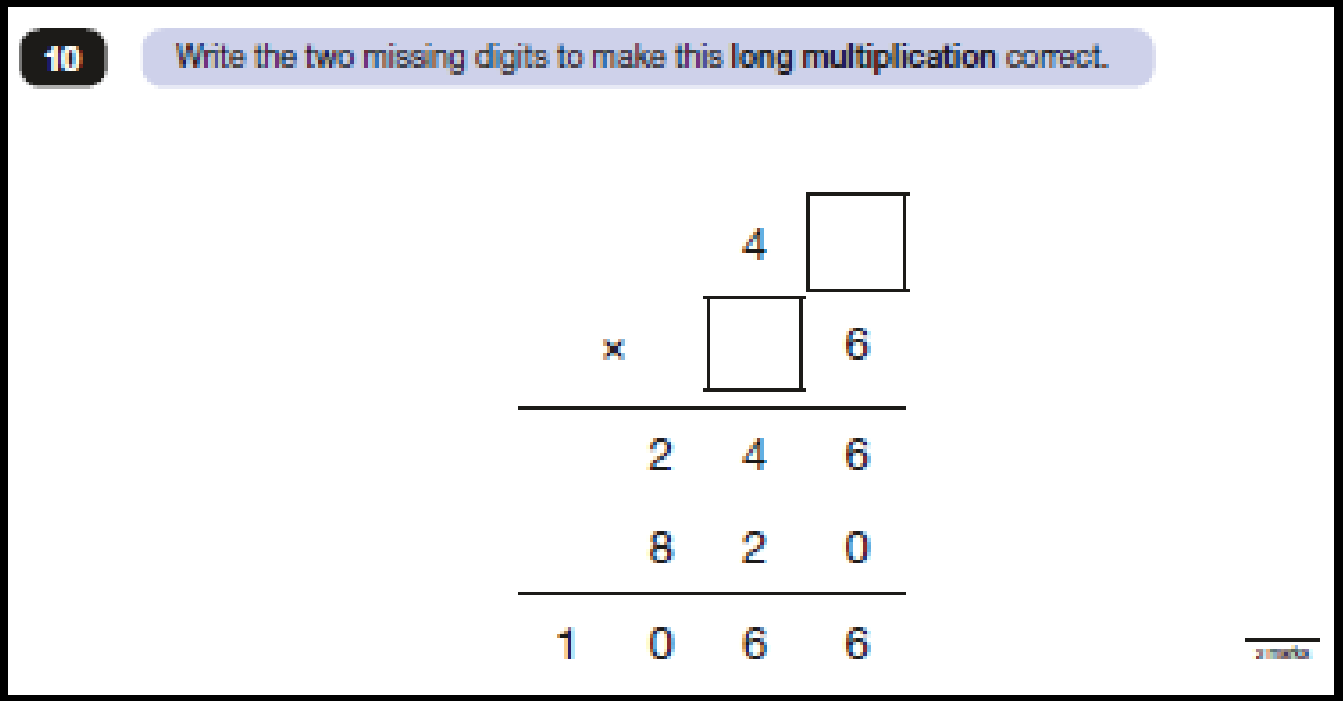
How much does each child pay?

Show your method

£

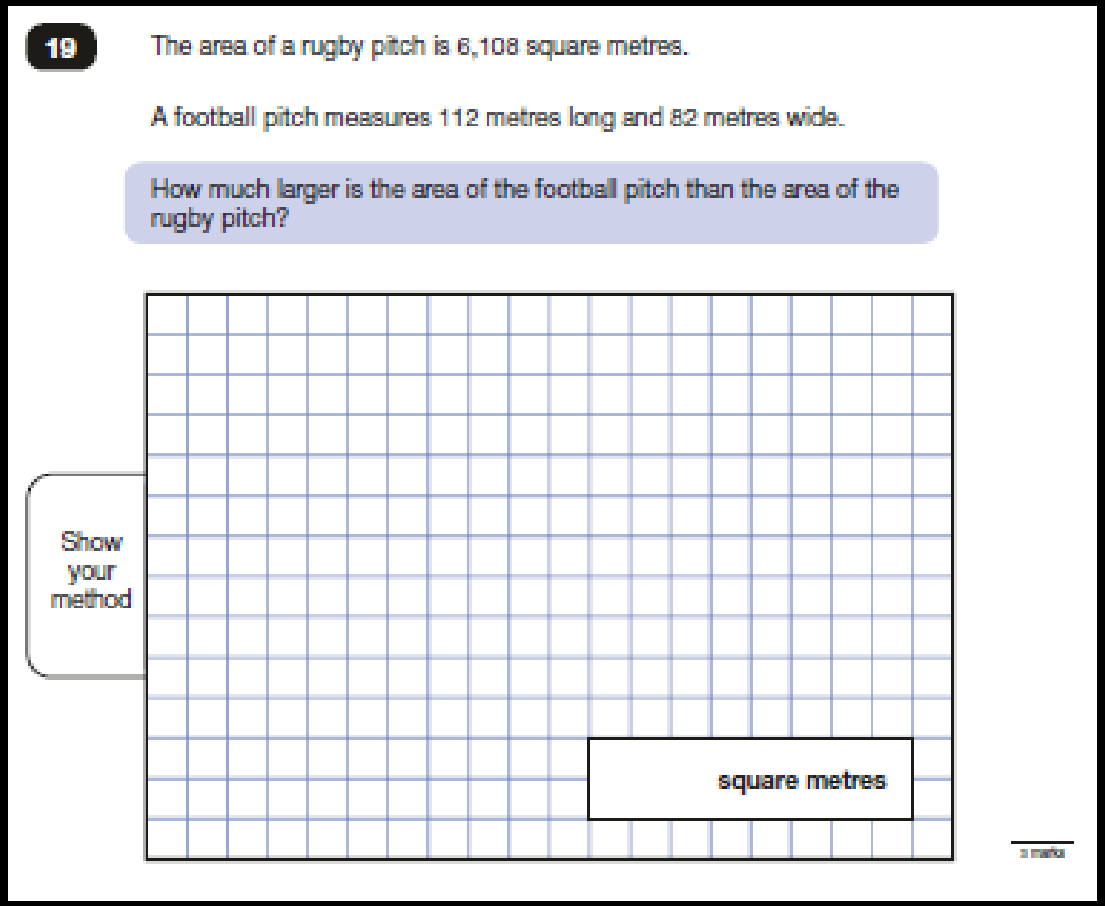
Question from sample KS2 reasoning paper. Contains about 20 questions that need to be completed in 40 mins.

RAISED EXPECTATIONS



Question from sample KS2 reasoning paper. Contains about 20 questions that need to be completed in 40 mins.

RAISED EXPECTATIONS



19 The area of a rugby pitch is 6,108 square metres.

A football pitch measures 112 metres long and 82 metres wide.

How much larger is the area of the football pitch than the area of the rugby pitch?

Show your method

square metres

3 marks

Question from sample KS2 reasoning paper. Contains about 20 questions that need to be completed in 40 mins.

RAISED EXPECTATIONS

(a) 1 kilogram of grapes costs £5.80.

Megan buys 700 grams of grapes.

How much does she pay?

£

1 mark

RAISED EXPECTATIONS

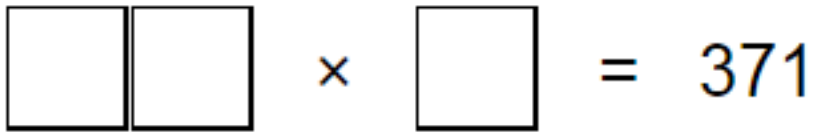
Write in the missing digits.

323 x $\square$7 = 1518$\square$

1 mark

RAISED EXPECTATIONS

Write the **three missing** digits.



1 mark

RAISED EXPECTATIONS

Write the **three prime numbers** which multiply to make **231**

1 mark

RAISED EXPECTATIONS

2753 people go to a sports event.

Each person pays **£2.30** for a ticket.

What is the **total** amount of **ticket money** collected?

£

1 mark

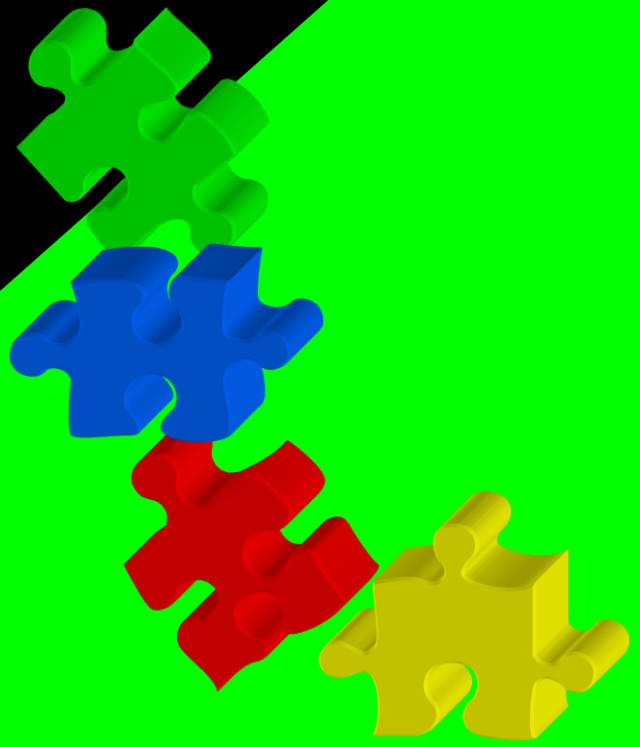
RAISED EXPECTATIONS

Programmes cost **65p** each.

The total money from programme sales is **£612.95**

How many programmes are sold?

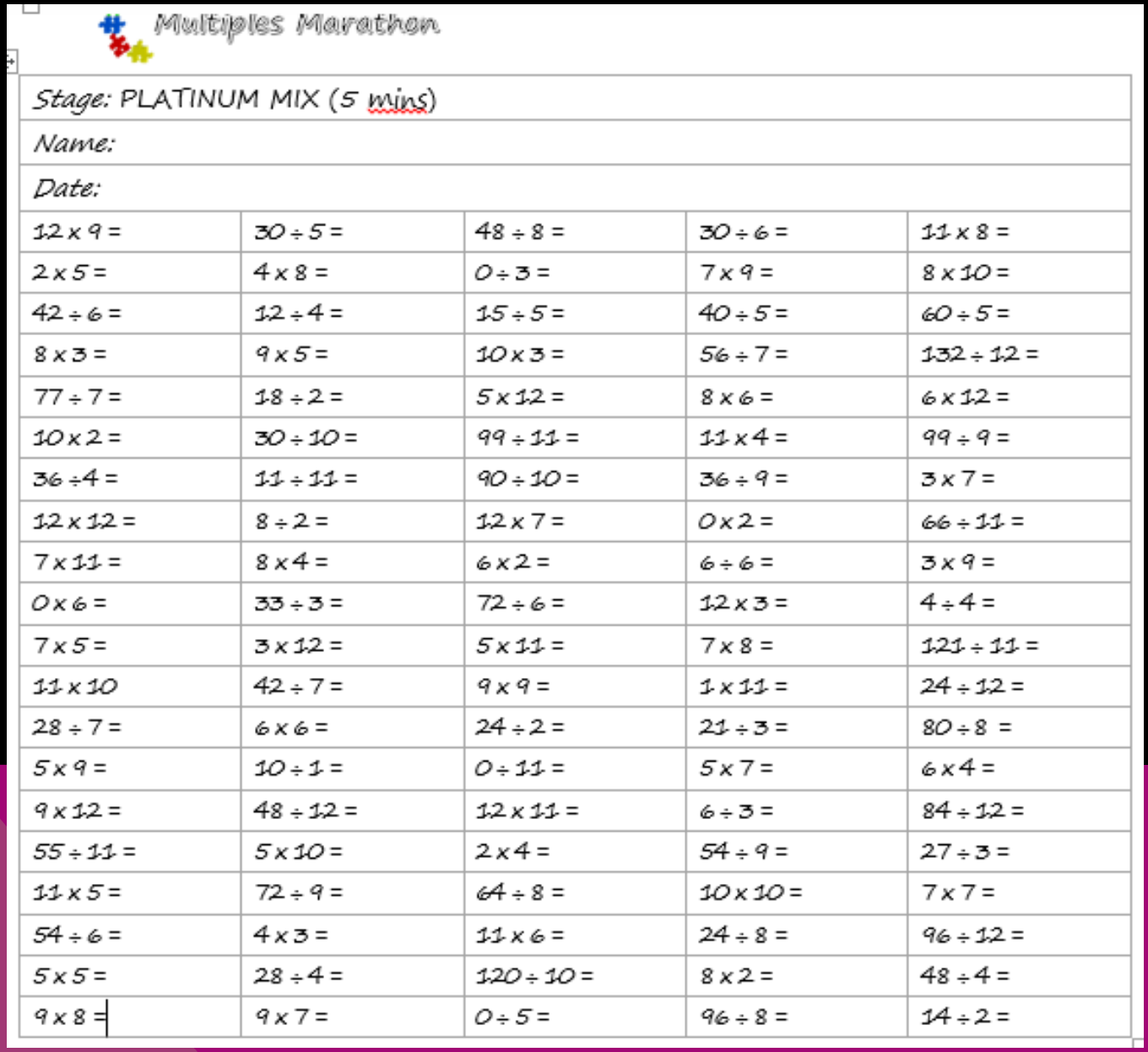
2 marks



Times Tables: The South End Way

Inspiring the learning journey

BENCHMARK – EXPECTATION BY THE END OF Y4



Multiples Marathon

Stage: PLATINUM MIX (5 mins)				
Name:				
Date:				
12 x 9 =	30 ÷ 5 =	48 ÷ 8 =	30 ÷ 6 =	11 x 8 =
2 x 5 =	4 x 8 =	0 ÷ 3 =	7 x 9 =	8 x 10 =
42 ÷ 6 =	12 ÷ 4 =	15 ÷ 5 =	40 ÷ 5 =	60 ÷ 5 =
8 x 3 =	9 x 5 =	10 x 3 =	56 ÷ 7 =	132 ÷ 12 =
77 ÷ 7 =	18 ÷ 2 =	5 x 12 =	8 x 6 =	6 x 12 =
10 x 2 =	30 ÷ 10 =	99 ÷ 11 =	11 x 4 =	99 ÷ 9 =
36 ÷ 4 =	11 ÷ 11 =	90 ÷ 10 =	36 ÷ 9 =	3 x 7 =
12 x 12 =	8 ÷ 2 =	12 x 7 =	0 x 2 =	66 ÷ 11 =
7 x 11 =	8 x 4 =	6 x 2 =	6 ÷ 6 =	3 x 9 =
0 x 6 =	33 ÷ 3 =	72 ÷ 6 =	12 x 3 =	4 ÷ 4 =
7 x 5 =	3 x 12 =	5 x 11 =	7 x 8 =	121 ÷ 11 =
11 x 10	42 ÷ 7 =	9 x 9 =	1 x 11 =	24 ÷ 12 =
28 ÷ 7 =	6 x 6 =	24 ÷ 2 =	21 ÷ 3 =	80 ÷ 8 =
5 x 9 =	10 ÷ 1 =	0 ÷ 11 =	5 x 7 =	6 x 4 =
9 x 12 =	48 ÷ 12 =	12 x 11 =	6 ÷ 3 =	84 ÷ 12 =
55 ÷ 11 =	5 x 10 =	2 x 4 =	54 ÷ 9 =	27 ÷ 3 =
11 x 5 =	72 ÷ 9 =	64 ÷ 8 =	10 x 10 =	7 x 7 =
54 ÷ 6 =	4 x 3 =	11 x 6 =	24 ÷ 8 =	96 ÷ 12 =
5 x 5 =	28 ÷ 4 =	120 ÷ 10 =	8 x 2 =	48 ÷ 4 =
9 x 8 =	9 x 7 =	0 ÷ 5 =	96 ÷ 8 =	14 ÷ 2 =

The Multiples Marathon

Progressive

- Not only moves through the tables but ensures children secure their knowledge and demonstrate a deep understanding by relating to division facts
- 27 stages that must be completed in order
- 100% is needed at each stage TWICE

Stage		Tables involved	Test	Award
1	2x straight	2x	13 Qs	
2	10x straight	10x	13 Qs	
3	10x shuffle	2x 10x	20 Qs	
4	5x straight	5x	13 Qs	
5	5x shuffle	2x 10x 5x	20 Qs	
6	The Copper Mix	2 5 10 x ÷	40 Qs	Copper Cruiser
7	3x straight	3x	13 Qs	

Stage		Tables involved	Test	Award
8	3x shuffle	2x 10x 5x 3x	30 Qs	
9	4x straight	4x	13 Qs	
10	4x shuffle	2x 10x 5x 3x 4x	30 Qs	
11	The Bronze Mix	2 3 4 5 10 x ÷	60 Qs	Bronze Buddy
12	8x straight	8x	13 Qs	
13	8x shuffle	2x 10x 5x 3x 4x 8x	40 Qs	
14	6x straight	6x	13 Qs	

Stage		Tables involved	Test	Award
15	6x shuffle	2x 10x 5x 3x 4x 8x 6x	40 Qs	
16	The Silver Mix	2 3 4 5 6 8 10 x ÷	80 Qs	Silver Surfer
17	9x straight	9x	13 Qs	
18	9x shuffle	2x 10x 5x 3x 4x 8x 6x 9x	50 Qs	
19	7x straight	7x	13 Qs	
20	7x shuffle	2x 10x 5x 3x 4x 8x 6x 9x 7x	50 Qs	
21	The Gold Mix	2 3 4 5 6 7 8 9 10 x ÷	80 Qs	Gold Gang

Stage		Tables involved	Test	Award
22	11x straight	11x	13 Qs	
23	11x shuffle	2x 10x 5x 3x 4x 8x 6x 9x 7x 11x	60 Qs	
24	12x straight	12x	13 Qs	
25	12x shuffle	2x 10x 5x 3x 4x 8x 6x 9x 7x 11x 12x	60 Qs	
26	The Platinum Mix	2 3 4 5 6 7 8 9 10 11 12 x ÷	100 Qs	Platinum Posse
27	The 100 Mix	Multiples of 10/ decimals	100 Qs	The 100 CLUB
Once in 'The 100 Club', children aim to beat their personal best each week.				

WAYS TO LEARN TIMES TABLES

Practise, practise and then practise a bit more!

PRIME → ADVANCING → DEEP

Prime:

Write the 13 facts out in order several times until they start to just 'flow'.

Try saying them to a rhythm as they are written.

0 x 6 = 0

1 x 6 = 6

2 x 6 = 12

PRIME → ADVANCING → DEEP

Prime:

Write the 13 facts out in a random order several times until they do flow.

5 x 6 = 30

11 x 6 = 66

7 x 6 = 42

PRIME → ADVANCING → DEEP

Advancing:

Write out the 13 questions in a random order but do not add answers. Time how quickly the answers can be added. Should be 30 seconds for a straight times table.

5 x 6 =

11 x 6 =

7 x 6 =

PRIME → ADVANCING → DEEP

Advancing:

There are many online games that support this stage – rapid recall

Suggestions are in the front of the children's home learning books and on the handout.

www.transum.org is superb and has even hooked our 'Too cool for school' Year 6s!

PRIME → ADVANCING → DEEP

DEEP:

To hold a deep understanding, children need to be able to recall all related facts

$4 \times 8 = 32$

$8 \times 4 = 32$

$32 \div 4 = 8$

$32 \div 8 = 4$

PRIME → ADVANCING → DEEP

DEEP:

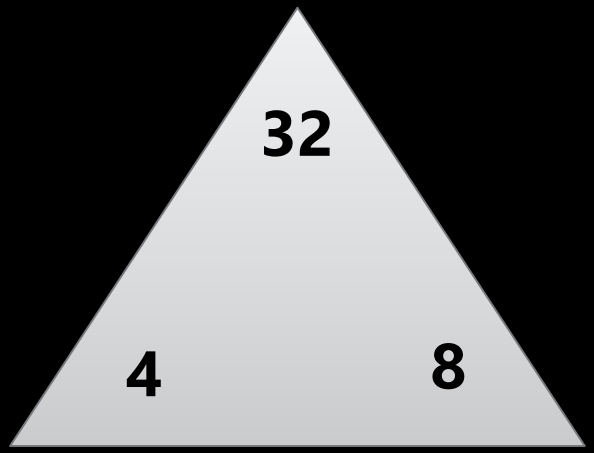
Trio triangles help with this.

4 x 8 = 32

8 x 4 = 32

32 ÷ 4 = 8

32 ÷ 8 = 4



What we will do:

- ❑ Provide opportunities within the week to practise – short and sharp
- ❑ Gradually introduce the children to a range of ways to practise
- ❑ Test once per week
- ❑ Reward and celebrate good effort in the test
- ❑ Reward good effort for learning them at home
- ❑ Track progress and provide further support to children who are finding it particularly difficult
- ❑ Update target stickers in their books as needed

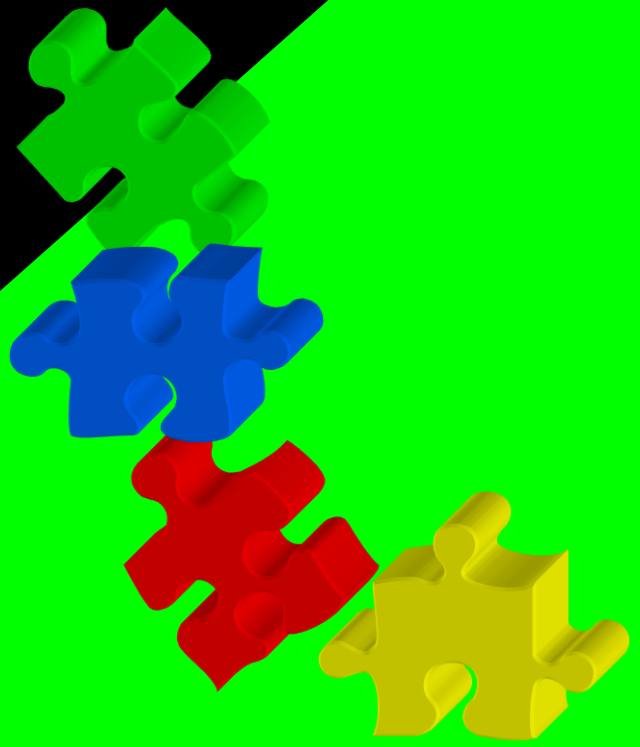
What the children should do:

- ❑ **PRACTISE, PRACTISE AND PRACTISE A BIT MORE!**
- ❑ **Pay attention to their target – learn the right facts**
- ❑ **Be positive and put in *their* best effort**
- ❑ **Show evidence of practice in their book to receive rewards**
- ❑ **Bring their maths home learning book to school on the day scheduled for their test**

What you can do:

- ❑ Encourage and praise
- ❑ Support your child to learn the facts
- ❑ Verbally test your child on the facts
- ❑ Ensure there is evidence of their home learning in their book – a comment and signature is perfectly acceptable.
- ❑ Ask them questions that require them to use their knowledge

Thank you for your time



Inspiring the learning journey