Maths Lessons - Week 7 - SATs Revision

This pack includes your 3 maths lessons for the week. The pack includes:

- √ 'Quick Ten' maths starters to warm your brains up
- √ 3 maths lessons
- ✓ worksheets

Read through the document carefully as it will give you instructions on what to do. Your work this week is revising the formal methods for multiplication and division. If you need a reminder about how to do formal multiplication/division, have a look on the My Maths lessons. Good luck Year 6!

Lesson 1 - Multiplication

Starter - Quick 10

Answer these 10 questions, which cover areas of maths you have already been taught, as quickly as possible. Time yourself and see if you can beat your score next time.

Question	Answer	Question	Answer
EXAMPLE: 2 X 4 =	8		
1. 1001 - 100 =		6. 40 × 60 =	
2. 2 squared=		7. 1/4+9/12 =	
3. 7 x 5 =		8. 4 + 15 × 7 =	
4. 4/9 + 1/9=		9. 6.087 - 0.081 =	
5. 25% of 211 =		10. 7.81 ÷ 100 =	

LONG MULTIPLICATION 1

13

TARGET To use a formal written method for long multiplication.

Examples

$$\begin{array}{c}
2 & 5 & 1 \\
4 & 3 & 9 & 2 \\
\times & & 3 & 6 \\
\hline
2 & 6 & 3 & 5 & 2 \\
1 & 3_1 1_2 7 & 6 & 0 \\
\hline
1 & 5 & 8 & 1 & 1 & 2
\end{array}$$

A
Copy and complete.

Work out

Copy and complete.

Work out

Work out

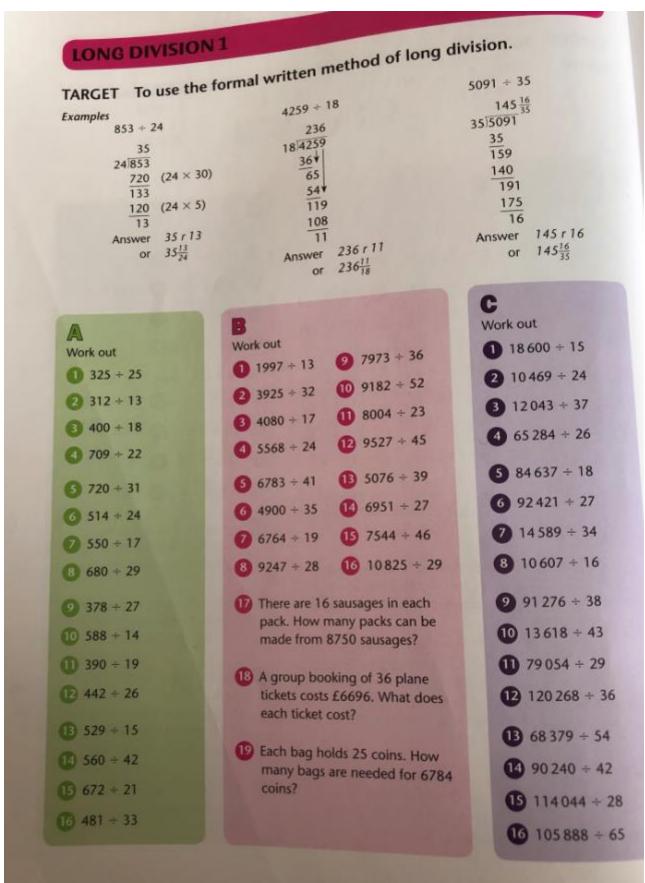
Lesson 2 - Division

Starter - Quick 10

Answer these 10 questions, which cover areas of maths you have already been taught, as quickly as possible. Time yourself and see if you can beat your time from lesson 1.

Question	Answer	Question	Answer
EXAMPLE: 2 X 4 =	8		
1. 11 087 - 100 =		6. 70 × 80 =	
2. 4 squared=		7. 2/3+7/9 =	
3. 6 x 2 =		8. 45 - (7 x 4) =	
4. 11/6 - 8/6=		9. 140.078 - 9.927 =	
5. 25% of 2458 =		10. 2.95 ÷ 100 =	

Activity 2 - Target Maths - Pick either A, B or C depending on your confidence level.



Lesson 3 - Apply

Starter - Quick 10

Answer these 10 questions, which cover areas of maths you have already been taught, as quickly as possible. Time yourself and see if you can beat your time from lesson 1.

Question	Answer	Question	Answer
EXAMPLE: 2 X 4 =	8		
1. 148, 099 - 1000 =		6. 70 x 50 =	
2. 10 squared=		7. 3/21 + 7/3 =	
3. 9 x 8 =		8. 20 + 12 ÷ 4 =	
4. 14/15 - 4/15=		9. 12.95 - 0.737 =	
5. 75% of 844 =		10. 0.008 × 100 =	

Activity 3: Answer the test base questions

Q1.

Layla makes jewellery to sell at a school fair.

Each bracelet has 53 beads.

She makes **68** bracelets.





She makes **34** necklaces.

Each necklace has 105 beads.

How many beads does Layla use altogether?

3 marks

Q2.

Dev has a bag of 50p coins and Holly has a bag of 20p coins.



Dev's bag

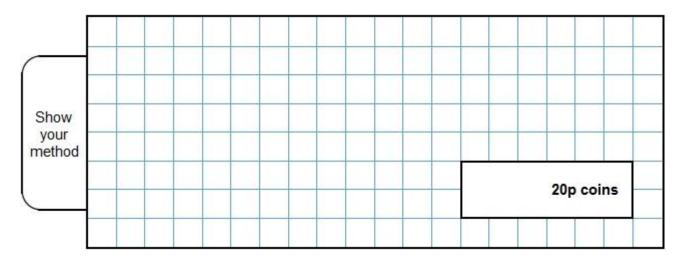


Holly's bag

Both bags have the same amount of money in.

There are **thirty** 50p coins in Dev's bag.

How many 20p coins are there in Holly's bag?



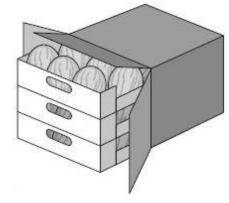
2 marks

Q3.

A box contains trays of melons.

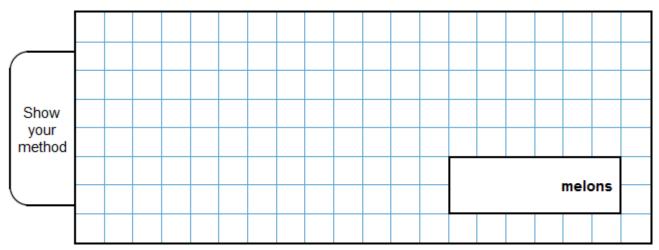
There are 15 melons in a tray.

There are 3 trays in a box.



A supermarket sells 40 boxes of melons.

How many melons does the supermarket sell?



2 marks

Q4.

Emma saves £3.50 each week.

How much has she saved after 16 weeks?

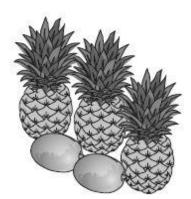
£

1 mark

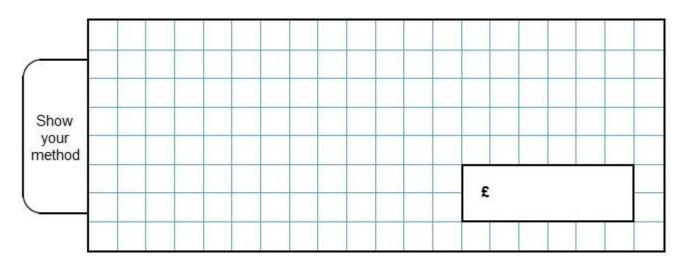
Q5.

3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



How much does **one** pineapple cost?



2 marks

Q6.

Ally and Jack buy some stickers.



Pack of 12 stickers £10.49

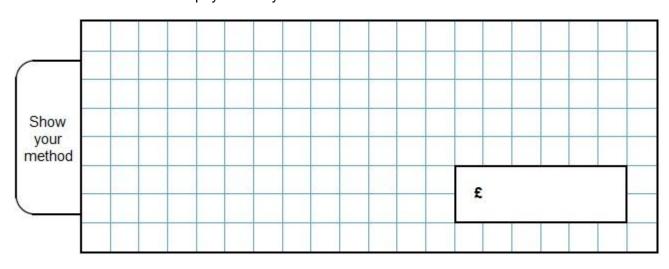


12 stickers 99p each

Ally buys a pack of 12 stickers for £10.49

Jack buys 12 single stickers for 99p each.

How much more does Jack pay than Ally?



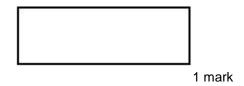
Q7.

A shop sells food for birds.



Lara has £10 to spend on peanuts.

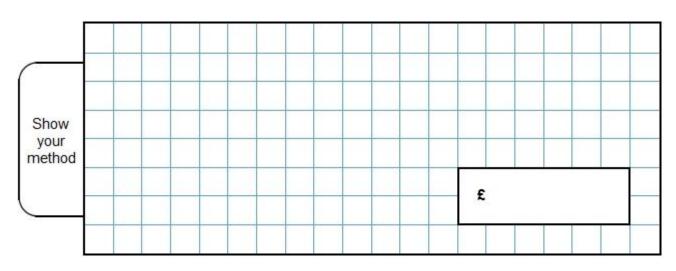
How many bags of peanuts can she get for £10?



Amir has £20

He wants to buy a bird-feeder and 4 bags of bird seed.

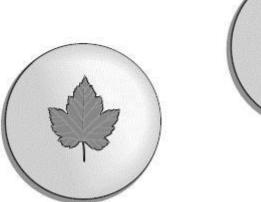
How much **more** money does he need?



2 marks

Q8.

Forest School sells badges for charity.





For each badge sold, £1.20 is given to a charity.

How much does the charity get when 12 badges are sold?

£

1 mark

If the charity got £24, how many badges were sold?

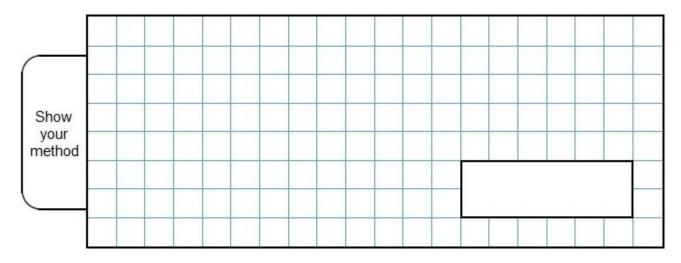
1 mark

Q9.

Shenaz buys a pack of 24 cans of cola for £6.00

What is the cost of each can?

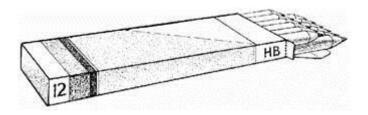




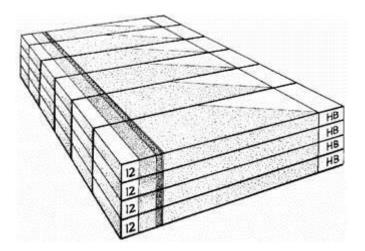
2 mark

Q10.

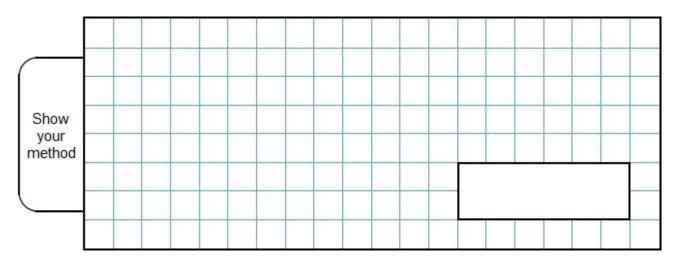
There are **12 pencils** in a box.



A school buys 24 boxes.



How many **pencils** does the school buy?



2 marks

ANSWERS:

Activity 1: Multiplication Answers

Page 13		
1 884	5 2646	9 5916
2 8856	6 1482	10 6132
3 864	7 931	11 7446
4 9345	8 1955	12 16 425
В		
1 32 422	5 91 648	9 269 051
2 35 532	6 161 283	10 47 640
3 63 574	7 74 936	11 190 086
4 87 400	8 106 610	12 344 112
C		
1 675 780	7 1843 395	13 86 655
2 1 087 712	8 3 389 312	14 84 042
3 1 434 324	9 45 567	15 242 392
4 731 655	10 96 256	16 245 594
5 919 542	11 68 242	17 348·3 kg
6 1832462	12 494 208	

Activity 2: Division Answers

Page 18			
A			
1 13	5 23 r 7	9 14	13 35 r 4
2 24	6 21 r 10	10 42	14 13 r 14
3 22 r 4	7 32 r 6	11 20 r 10	15 32
4 32 r 5	8 23 r 13	12 17	16 14 r 19
В			
1 153 r 8	6 140	11 348	16 373 r 8
2 122 r 21	7 356	12 211 r 32	17 546
3 240	8 330 r 7	13 130 r 6	18 £186
4 232	9 221 r 17	14 257 r 12	19 272
5 165 r 18	10 176 r 30	15 164	
c			
1 1240	5 4702 r 1	9 2402	13 1266 r 15
2 436 r 5	6 3423	10 316 r 30	14 2148 r 24
3 325 r 18	7 429 r 3	11 2726	15 4073
4 2510 r 24	8 662 r 15	12 3340 r 28	16 1629 r 3

Activity 3: Test Base Answers

Q1.

Award THREE marks for the correct answer of 7,174

If the answer is incorrect, award **TWO** marks for:

 evidence of an appropriate complete method which contains no more than ONE arithmetic error, e.g.

3,504 + 3,570 = 7,074

Award **ONE** mark for:

evidence of an appropriate method with more than ONE arithmetic error.

OR

sight of 3,604 as evidence of long multiplication step (68 x 53) completed correctly.

OR

sight of 3,570 as evidence of long multiplication step (105 x 34) completed correctly.

Answer need not be obtained for the award of **ONE** mark.

A misread of a number may affect the award of marks. No marks are awarded if there is more than **ONE** misread or if the mathematics is simplified.

TWO marks will be awarded if an appropriate method with the misread number is followed through correctly.

ONE mark will be awarded for evidence of an appropriate method with the misread number followed through correctly with no more than **ONE** arithmetic error.

Up to 3m

[3]

Q2.

Award **TWO** marks for the correct answer of 75

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

• $30 \times 50 = 1500$ $1500 \div 20$

OR

• 30 × 50p = £15 5 20p coins make £1 5 × 15

OR

• $50p \div 20p = 2.5$ 30×2.5

Answer need not be obtained for the award of **ONE** mark.

Up to 2

[2]

Q3.

Award **TWO** marks for the correct answer of 1800

If the answer is incorrect, award **ONE** mark for evidence of appropriate complete method with no more than one arithmetic error, e.g.

• $40 \times 15 = 500$ (error) $500 \times 3 = 1500$

Do not accept sight of a correct multiplication, e.g. $40 \times 15 \times 3$, for **ONE** mark unless part of the calculation is evaluated

correctly.

Misreads are not allowed.

If no answer is given, the first part of the calculation must be evaluated correctly for the award of **ONE** mark, e.g.

• $15 \times 3 = 45$ $45 \times 40 =$

OR

• $40 \times 15 = 600$ $600 \times 3 =$

OR

• 40 × 3 = 120 120 × 15 =

Up to 2m

[2]

Q4.

£56

Accept also £56 00 (with clear space between 6 and 0) or £56.00p.

[1]

Q5.

Award **TWO** marks for the correct answer of £0.90

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

• £1.35 × 2 = £2.70 £2.70 ÷ 3

Accept for **ONE** mark an answer of £90p **OR** £0.9 as evidence of an appropriate method.

Answer need not be obtained for the award of **ONE** mark.

Up to 2m

[2]

Q6.

Award TWO marks for the correct answer of £1.39

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

• $12 \times 99p = £11.88$ £11.88 - £10.49

Accept for **ONE** mark an answer of £139 **OR** £139p as evidence of an appropriate method.

Answer need	not he	ohtained	for the	award i	of ONE	mark
ANSWEL HEED	IIUI UE	UUIAIIIGU	101 1116	avvaiu	UI CIVE I	ilain.

Up to 2m

Q7.

(a) 7

> Accept 7 r 55p. Do not accept 7 r 55

1

[2]

[3]

(b) Award **TWO** marks for the correct answer of £4.11

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

 $4 \times 3.79 = 15.16$

8.95 + 15.16 = 24.11

24.11 - 20

Accept for **ONE** mark £411 **OR** £411p as evidence of appropriate method.

Answer need not be obtained for the award of **ONE** mark.

Up to 2

Q8.

(a) £14.40

Do not accept £14.4

1

1

(b) 20

Do not accept £20

[2]

Q9.

Award **TWO** marks for the correct answer of 25p **OR** £0.25 **OR** 25 pence.

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg $600 \div 24$ = wrong answer.

Accept £0 25 OR £0.25p OR £0 25p OR 25 OR 0.25 OR £0-

Calculation must be performed for the award of **ONE** mark.

Up to 2

[2]

Q10.

Award **TWO** marks for the correct answer of 288

If the answer is incorrect, award **ONE** mark for an appropriate calculation such as

 $12 \times 24 = incorrect answer$