## Maths Lessons - Week 7 - SATs Revision

This pack includes your 3 maths lessons for the week. The pack includes:
$\checkmark$ 'Quick Ten' maths starters to warm your brains up
$\checkmark 3$ maths lessons
$\checkmark$ 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: $2 \times 4=$ | 8 |  |  |
| $1.1001-100=$ |  | $6.40 \times 60=$ |  |
| 2.2 squared= |  | $7.1 / 4+9 / 12=$ |  |
| $3.7 \times 5=$ |  | $8.4+15 \times 7=$ |  |
| $4.4 / 9+1 / 9=$ |  | $9.6 .087-0.081=$ |  |
| $5.25 \%$ of $211=$ |  | $10.7 .81 \div 100=$ |  |

Activity 1 - Target Maths - Pick either A, B or C depending on your confidence level.


## 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: $2 \times 4=$ | 8 |  |  |
| $1.11087-100=$ |  | $6.70 \times 80=$ |  |
| 2.4 squared= |  | $7.2 / 3+7 / 9=$ |  |
| $3.6 \times 2=$ |  | $8.45-(7 \times 4)=$ |  |
| $4.11 / 6-8 / 6=$ |  | $9.140 .078-9.927=$ |  |
| $5.25 \%$ of $2458=$ |  | $10.2 .95 \div 100=$ |  |

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

## LONG DIVISION 1

TARGET use the formal written method of long division.
TARGET To use the formal written
Examples

| $853+24$ | $4259+18$ |  |
| ---: | :--- | ---: |
| 35 | 236 |  |
| $2 4 \longdiv { 8 5 3 }$ | $\frac{25259}{}$ |  |
| $\frac{720}{133}$ | $(24 \times 30)$ | $\frac{36}{65}$ |
| $\frac{120}{13}$ | $(24 \times 5)$ | $\frac{54}{119}$ |
| Answer $35 r 13$ | $\frac{108}{11}$ |  |
| or $35 \frac{13}{24}$ | Answer $236 r 11$ |  |
|  | or $236 \frac{11}{18}$ |  |

[^0]

## $C$

Work out
(1) $18600 \div 15$
(2) $10469 \div 24$
(3) $12043 \div 37$
(4) $65284 \div 26$
(5) $84637 \div 18$
(6) $92421 \div 27$
(7) $14589 \div 34$
(8) $10607 \div 16$
(9) $91276 \div 38$
(10) $13618 \div 43$
(11) $79054 \div 29$
(12) $120268 \div 36$
(13) $68379 \div 54$
(14) $90240 \div 42$
(15) $114044 \div 28$
(16) $105888 \div 65$

## 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: $2 \times 4=$ | 8 |  |  |
| $1.148,099-1000=$ |  | $6.70 \times 50=$ |  |
| 2.10 squared= |  | $7.3 / 21+7 / 3=$ |  |
| $3.9 \times 8=$ |  | $8.20+12 \div 4=$ |  |
| $4.14 / 15-4 / 15=$ |  | $9.12 .95-0.737=$ |  |
| $5.75 \%$ of $844=$ |  | $10.0 .008 \times 100=$ |  |

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.
Each necklace has 105 beads.


She makes 34 necklaces.
How many beads does Layla use altogether?

Q2.
Dev has a bag of 50 p coins and Holly has a bag of 20p coins.


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?


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?


Q6.
Ally and Jack buy some stickers.


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 $£ 10$ ?
$\square$

Amir has £20
He wants to buy a bird-feeder and 4 bags of bird seed.
How much more money does he need?


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 $\mathbf{1 2}$ badges are sold?


1 mark
If the charity got $\mathbf{£ 2 4}$, how many badges were sold?


1 mark

## Q9.

Shenaz buys a pack of $\mathbf{2 4}$ cans of cola for $\mathbf{£ 6 . 0 0}$

What is the cost of each can?



## Q10.

There are $\mathbf{1 2}$ pencils in a box.


A school buys 24 boxes.


How many pencils does the school buy?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| Show |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| your method |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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2 marks

## ANSWERS:

Activity 1: Multiplication Answers

| Page 13 |  |  |
| :---: | :---: | :---: |
| A |  |  |
| 1884 | 52646 | 95916 |
| 28856 | 61482 | 106132 |
| 3864 | 7931 | 117446 |
| 49345 | 81955 | 1216425 |
| B |  |  |
| 132422 | 591648 | 9269051 |
| 235532 | 6161283 | 1047640 |
| 363574 | 774936 | 11190086 |
| 487400 | 8106610 | 12344112 |
| C |  |  |
| 1675780 | 71843395 | 1386655 |
| 21087712 | 83389312 | 1484042 |
| 31434324 | 945567 | 15242392 |
| 4731655 | 1096256 | 16245594 |
| 5919542 | 1168242 | 17348.3 kg |
| 61832462 | 12494208 |  |

Activity 2: Division Answers

| Page 18 |  |  |  |
| :---: | :---: | :---: | :---: |
| A |  |  |  |
| 113 | 523 r 7 | 914 | 1335 r 4 |
| 224 | 621 r 10 | 1042 | $1413 \mathrm{rl4}$ |
| 322 r 4 | 732 r 6 | 1120 r 10 | 1532 |
| 432 r 5 | 823 r 13 | 1217 | 1614 r 19 |
| B |  |  |  |
| 1153 r 8 | 6140 | 11348 | 16373 r 8 |
| 2122 r 21 | 7356 | 12211 r 32 | 17546 |
| 3240 | 8330 r 7 | 13130 r 6 | 18 £186 |
| 4232 | 9221 r 17 | 14257 r 12 | 19272 |
| 5165 r 18 | 10176 r 30 | 15164 |  |
| C |  |  |  |
| 11240 | 54702 r 1 | 92402 | 131266 r 15 |
| 2436 r 5 | 63423 | 10316 r 30 | 142148 r 24 |
| 3325 r 18 | 7429 r 3 | 112726 | 154073 |
| 42510 r 24 | 8662 r 15 | 123340 r 28 | 161629 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.
$\times \frac{68}{3504}$ (error)
105

$$
\times \frac{34}{3570}
$$

$3,504+3,570=7,074$

## 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 $(68 \times 53)$ completed correctly.


## OR

- sight of 3,570 as evidence of long multiplication step ( $105 \times 34$ ) 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

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
- $30 \times 50 \mathrm{p}=£ 15$

5 20p coins make £1
$5 \times 15$

## OR

- $50 p \div 20 p=2.5$
$30 \times 2.5$
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
- $40 \times 3=120$ $120 \times 15=$

Up to 2 m

Q4.
£56
Accept also $£ 5600$ (with clear space between 6 and 0) or £56.00p.

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.

- $£ 1.35 \times 2=£ 2.70$
£ $2.70 \div 3$
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 2 m

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.

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

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

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

Q7.
(a) 7

Accept 7 r 55p.
Do not accept 7 r 55
(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 $£ 411 p$ as evidence of appropriate method.
Answer need not be obtained for the award of ONE mark.

Q8.
(a) $£ 14.40$

Do not accept £14.4
(b) 20

Do not accept £20

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 £O25.

Calculation must be performed for the award of ONE mark.

## 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


[^0]:    $5091 \div 35$
    $35 \quad 145 \frac{16}{35}$
    $3 5 \longdiv { 5 0 9 1 }$
    $\frac{35}{159}$
    $\frac{140}{191}$
    $\frac{175}{16}$
    Answer $145 \times 16$
    or $145 \frac{16}{35}$

