

Name:



Maths Assessment Year 4: Multiplication and Division

1. Recall multiplication and division up to 12×12 .
2. Use place value, known and derived facts to multiply and divide mentally, including: dividing by 1; multiplying together three numbers.
3. Recognise and use factor pairs and commutativity in mental calculations.
4. Multiply 2 digit and 3 digit numbers by a 1 digit number using formal written layout.
5. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Name:

Date:

Maths Assessment Year 4: Multiplication and Division

1. Recall multiplication and division up to 12×12 .

Answer the questions your teacher reads out loud. Just write the answer.

1		6		11		16	
2		7		12		17	
3		8		13		18	
4		9		14		19	
5		10		15		20	

10 marks

2. Use place value, known and derived facts to multiply and divide mentally, including: dividing by 1; multiplying together three numbers.

a) Answer the questions your teacher reads out loud. Just write the answer.

1		6	
2		7	
3		8	
4		9	
5		10	

5 marks

b) Multiply these numbers together:

24×0	
$4 \times 6 \times 3$	
$7 \times 2 \times 8$	
125×1	
$5 \times 8 \times 3$	
$6 \times 4 \times 8$	

6 marks

Total for this page

c) For each multiplication, write 1 related division fact:

example:

8×7	$56 \div 7 = 8$
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6×4	
12×7	
11×9	
4×8	
9×5	
6×8	



6 marks

3. Recognise and use factor pairs and commutativity in mental calculations.

a) Two **factors** of 12 add up to 8. What are they?



1 mark

b) Tick the calculations that have the same answer to $3 \times 4 \times 5$.

$4 \times 5 \times 3$

20×3

$6 \times 4 \times 2$

6×12

$3 \times 20 \times 1$



2 marks

4. Multiply 2 digit and 3 digit numbers by a 1 digit number using formal written layout.

Use written methods to complete these calculations. Show your working out:

85×3	62×4
132×5	264×3



4 marks



Total for this page

5. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Solve the following problems:

- a) Ella needs 20 cupcakes for her birthday party. The following shops sell them at the following prices:

Party Cakes 4 U



5 cupcakes for 40p

Cool Cupcakes



4 cupcakes for 30p

Which shop would it be cheapest to buy the cakes at? Show your working out.

2 marks

- b) She also wants to buy 6 margarita pizzas and 4 pepperoni.

Pizza House



Margarita 3 for £4
Pepperoni £2 each

Pizza Palace



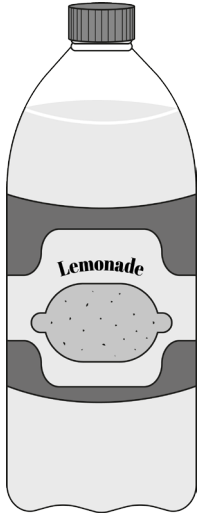
Margarita 75p each
Pepperoni 2 for £5

Which shop would it be cheapest to buy the pizzas at? Show your working out.

2 marks

Total for this page

- c) There are 7 guests coming to the party. She estimates that each guest, plus herself, will drink 500ml of lemonade each. How many litre bottles of lemonade will she need to buy. If each litre costs £1.50, how much will it cost altogether? Show your working out.



how many bottles of lemonade?	
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total cost	
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2 marks

Total for this page

1. Questions for teacher to read aloud. Read each question twice and leave 5 seconds for the pupils to answer. Children should just write down the answer.

1	6×9	6	9×8	11	7×12	16	4×8
2	$32 \div 8$	7	12×12	12	$81 \div 9$	17	7×7
3	7×5	8	$40 \div 8$	13	8×6	18	$60 \div 12$
4	11×9	9	3×7	14	$80 \div 8$	19	8×7
5	$36 \div 6$	10	$45 \div 9$	15	9×0	20	$42 \div 7$

2. Tell the children to use the multiplication facts they already know and place value to answer the following questions. Read each question twice and leave 10 seconds for them to write the answer.

1	80×5	6	7×20
2	5×40	7	$540 \div 9$
3	$210 \div 3$	8	500×7
4	60×6	9	80×30
5	$240 \div 8$	10	30×60

Answer Sheet: Maths Assessment Year 4: Multiplication and Division



question	answer	marks	notes
1. Recall multiplication and division up to 12 x 12.			
	1. 54 6. 72 11. 84 16. 32 2. 4 7. 144 12. 9 17. 49 3. 35 8. 5 13. 48 18. 5 4. 99 9. 21 14. 10 19. 56 5. 6 10. 5 15. 0 20. 6	up to 10 marks	1 or 2 correct = 1 mark 3 or 4 correct = 2 marks 5 or 6 correct = 3 marks 7 or 8 correct = 4 marks 9 or 10 correct = 5 marks 11 or 12 correct = 6 marks 13 or 14 correct = 7 marks 15 or 16 correct = 8 marks 17 or 18 correct = 9 marks 19 or 20 correct = 10 marks
2. Use place value, known and derived facts to multiply and divide mentally, including: dividing by 1; multiplying together three numbers.			
a	1. 400 6. 140 2. 200 7. 60 3. 70 8. 3500 4. 360 9. 2400 5. 30 10. 1800	up to 5 marks	1 or 2 correct = 1 mark 3 or 4 correct = 2 marks 5 or 6 correct = 3 marks 7 or 8 correct = 4 marks 9 or 10 correct = 5 marks
b	I. 0 II. 72 III. 112 IV. 125 V. 120 VI. 192	up to 6 marks	Award one mark for each correct answer.
c	I. $24 \div 6 = 4$ or $24 \div 4 = 6$ II. $84 \div 12 = 7$ or $84 \div 7 = 12$ III. $99 \div 11 = 9$ or $99 \div 9 = 11$ IV. $32 \div 4 = 8$ or $32 \div 8 = 4$ V. $45 \div 9 = 5$ or $45 \div 5 = 9$ VI. $48 \div 6 = 8$ or $48 \div 8 = 6$	up to 6 marks	Award one mark for each correct answer.
3. Recognise and use factor pairs and commutativity in mental calculations.			
a	6 and 2	1	Accept them in any order
b	$4 \times 5 \times 3$ 20×3 $6 \times 4 \times 2$ 5×12 $3 \times 20 \times 1$ <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	up to 2 marks	Score 2 marks for all 3 correct, with no others marked with a tick. Score 1 mark for 2 correct, with no others marked with a tick.
4. Multiply 2 digit and 3 digit numbers by a 1 digit number using formal written layout.			
	$85 \times 3 = 255$ $132 \times 5 = 660$ $62 \times 4 = 248$ $264 \times 3 = 792$	up to 4 marks	Award 1 mark for each correct answer, but must show working out.

question	answer	marks	notes
5. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.			
a	Cool Cupcakes	Up to 2 marks	Score 2 marks for Cool Cupcakes, or an indication that this shop was the cheapest (arrow / circle) Award 1 mark for a correct method but a calculation error.
b	Pizza palace	Up to 2 marks	Score 2 marks for Pizza Palace or an indication that this shop was the cheapest (arrow / circle) Award 1 mark for a correct method but a calculation error.
c	4 bottles £6	Up to 2 marks	Score 1 mark for each part of the question. If the number of bottles is incorrect, score 1 mark for calculating the correct cost of the bottles based on the previous answer.
		Total 40	