Name:

Maths Assessment Year 4 Term 2: 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 two-digit and three-digit numbers by a one-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.

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Name: Date:

40 total marks

Maths Assessment Year 4 Term 2: 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:

3 × 6 × 0	
5 × 2 × 3	
8 × 3 × 9	
2540 × 1	
10 × 7 × 6	
4 × 4 × 4	

6 marks

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

a) Write all the factors of 48

3 marks

b) Two **factors** of 24 have a difference of 5. What are they?

1 mark

c) Tick the calculations that have the same answer to 2 × 7 × 5.

5 × 7 × 2	35 × 7	6 × 7 × 2	5 × 14	7 × 10 × 1
☐	☐	☐	☐	☐

2 marks

d) Using the same numbers, write the following calculation in 5 other ways:

6 × 3 × 8

3 marks

4. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

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

67 × 4	82 × 7
163 × 6	409 × 3

4 marks

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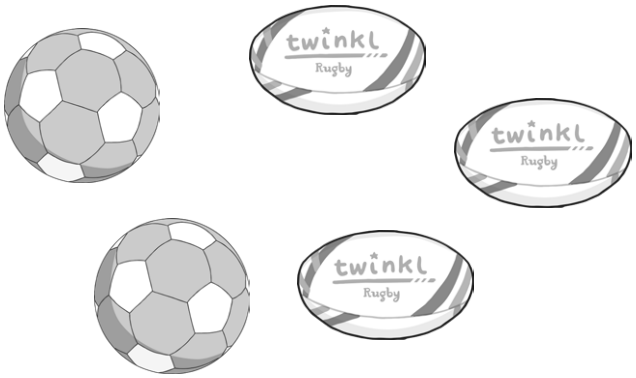
5. Solve problems involving multiplying and adding, including the distributive law to multiply two-digit numbers by a one-digit, integer scaling problems and harder correspondence problems, such as n objects are connected to m objects.

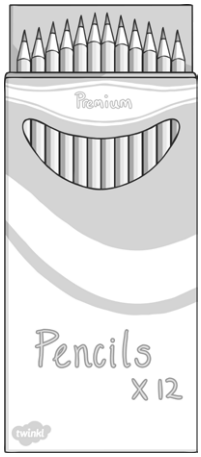
Solve the following problems:

a) A school buys some packs of balls. In each pack, there are 2 footballs and 3 rugby balls. When all the packs were opened there were 16 footballs. How many rugby balls were there? Show your working out.



2 marks

b) A box of pencils contains 6 packs of 12 pencils. The school buys 8 boxes. How many pencils will the school buy? Show your working out.



2 marks

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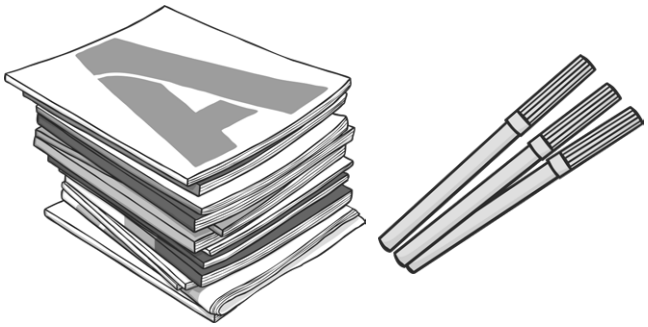
c) Each week, Marcella buys a magazine for 60p and 2 colouring pens for 35p each. After 8 weeks, how much has she spent on the magazines and pens altogether? Show your working out.



2 marks

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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	7 × 5	**6**	3 × 8	**11**	108 ÷ 12	**16**	11 × 10
2	48 ÷ 6	**7**	11 × 12	**12**	5 × 5	**17**	49 ÷ 7
3	7 × 9	**8**	55 ÷ 5	**13**	2 × 6	**18**	8 × 5
4	11 × 3	**9**	4 × 7	**14**	32 ÷ 8	**19**	9 × 7
5	36 ÷ 6	**10**	6 × 12	**15**	4 × 0	**20**	8 ÷ 8

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	40 × 6	**6**	320 ÷ 4
2	3 × 70	**7**	80 × 6
3	900 ÷ 3	**8**	400 × 4
4	20 × 8	**9**	200 ÷ 5
5	60 × 9	**10**	40 × 30

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Answer Sheet: Maths Assessment Year 4 Term 2: Multiplication and Division

question	answer	marks	notes
1. Recall multiplication and division up to 12 x 12.			
	1. **35** 6. **24** 11. **9** 16. **110** 2. **8** 7. **132** 12. **25** 17. **7** 3. **63** 8. **11** 13. **12** 18. **40** 4. **33** 9. **28** 14. **4** 19. **63** 5. **6** 10. **72** 15. **0** 20. **1**	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. **240** 6. **80** 2. **210** 7. **480** 3. **300** 8. **1600** 4. **160** 9. **40** 5. **540** 10. **1200**	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	3 × 6 = **0** 5 × 2 × = **30** 8 × 3 × 9 = **216** 2540 × 1 = **2540** 10 × 7 × 6 = **420** 4 × 4 × 4 = **64**	up to 6 marks	Award one mark for each correct answer.
3. Recognise and use factor pairs and commutativity in mental calculations.			
a	1, 2, 3, 4, 6, 8, 12, 16, 24, 48	3	Accept them in any order.
b	8 and 3, 1 and 6	1	Accept them in any order.
c	5 x 7 x 2 ☑ 35 x 7 ☐ 6 x 7 x 2 ☐ 5 x 14 ☑ 7 x 10 x 1 ☑	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.
d	6 × 8 × 3 3 × 6 × 8 3 × 8 × 6 8 × 3 × 6 8 × 6 × 3		3 marks for all 5, 2 marks for 4 correct ways and only 1 error, 1 mark for 3 correct ways and only 1 error. Also allow expressions where 2 digits are multiplied: eg 18 × 8 or 48 × 3
4. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.			
	67 × 4 = 268 82 × 7 = 574 163 × 6 = 978 409 × 3 = 1227	up to 4 marks	Award 1 mark for each correct answer, but must show working out.

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question	answer	marks	notes
5. Solve problems involving multiplying and adding, including the distributive law to multiply two-digit numbers by a one-digit, integer scaling problems and harder correspondence problems, such as n objects are connected to m objects.			
a	24 rugby balls	Up to 2 marks	Score 2 marks for correct answer. 1 mark for an answer showing a method but with 1 mistake.
b	576	Up to 2 marks	Score 2 marks for correct answer. 1 mark for an answer showing only 1 mistake.
c	£10.40	Up to 2 marks	Score 2 marks for correct answer. 1 mark for correct method and only 1 mistake in calculation.
		Total 40	

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