Kar 4 Numeracy Pack#1



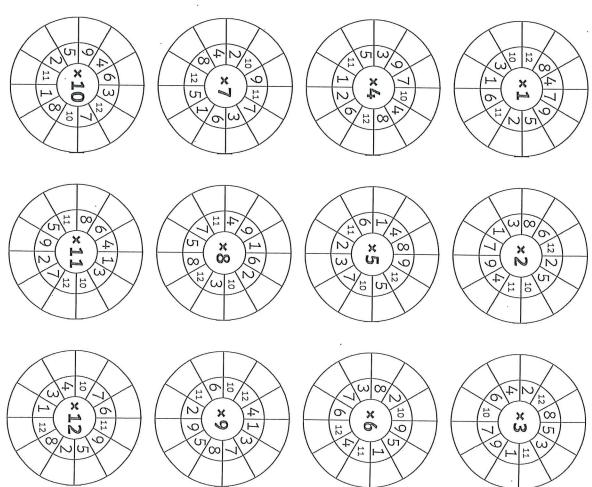
Maths Home Learning Activity Booklet

Multiplication Square

12	11	10	9	∞	7	6	ъ	4	ω	2	1	×
12	11	10	9	œ	7	6	ъ	4	ω	2	1	Н
24	22	20	18	16	14	12	10	8	6	4	2	2
36	33	30	27	24	21	18	15	12	9	6	ω	ω
48	44	40	36	32	28	24	20	16	12	8	4	4
60	55	50	45	40	35	30	25	20	15	10	υ	<u>ს</u>
72	66	60	54	48	42	36	30	24	18	12	6	6
84	77	70	63	56	49	42	35	28	2,1	14	7	7
96	88	80	72	64	56	48	40	32	24	16	∞	8
108	99	90	81	72	63	54	45	36	27	18	9	9
120	110	100	90	80	70	60	50	40	30	20	10,	10
132	121	110	99	88	77	66	55	44	33	22	11	11
144	132	120	108	96	84	72	60	48	36	24	12	12

Multiplication Wheels

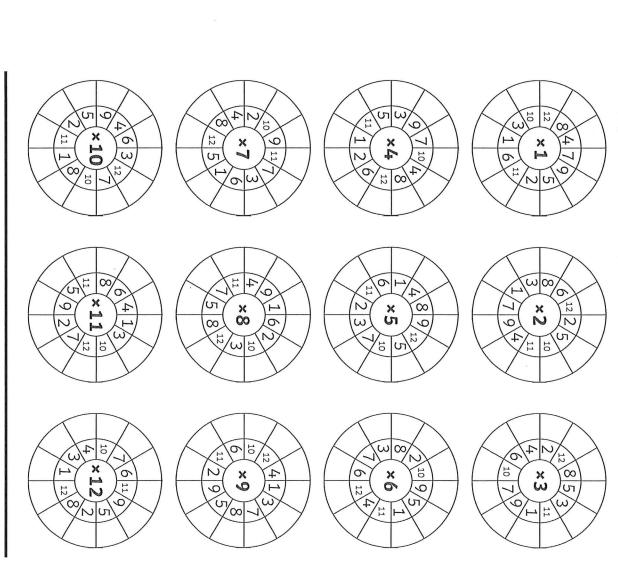
Multiply the numbers by the middle number.



Multiplication Wheels

Notes

Multiply the numbers by the middle number.



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7. A mother and a father are the same age and they have triplets. The total of all the ages in the family added together is 79. Can you find two possibilities for the family's ages?

8. A shop sells these drinks: Orange Juice, Lemonade, Coke and Water and these crisps: Pickled Onion, Plain and Salt and Vinegar. If you went into the shops and bought one drink and one packet of crisps, how many different possible combinations would there be?

Multiplying by 1 and 0 and Dividing by 1

A. Calculate:

10.
$$1 \times 31 =$$

2.
$$1 \times 82 =$$

4.
$$25 \times 1 =$$

13.
$$50 \times 1 =$$

5.
$$342 \times 1 =$$

14.
$$1 \times 50 =$$

7.
$$4567 \times 0 =$$

8.
$$1 \times 1 =$$

9. $0 \times 11 =$

- **18.** $156 \times 0 =$
- B. Write the calculation represented by these word problems then solve the word problem.
- Dave buys 72 eggs and puts them all in one basket.
 How many eggs are in the basket?

	2
buys one game console. How much does she spend?	2. Bobbie finds a shop selling games consoles for £79. She

Calculation =	
Answer	
er =	

3. Samit's dad earns £65 per shift, but last week he could not work as he was ill. How much did he earn altogether last week?

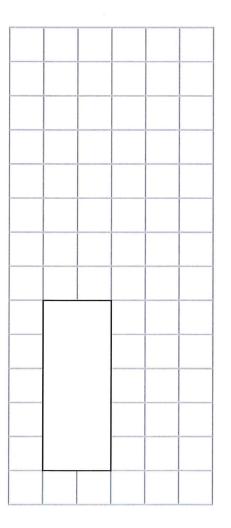
C. Work your way across each grid applying each operation to the answer from the previous calculation.

32	Beginning Number
	· · ·
	×1
	x0
	÷1
	Ending Number

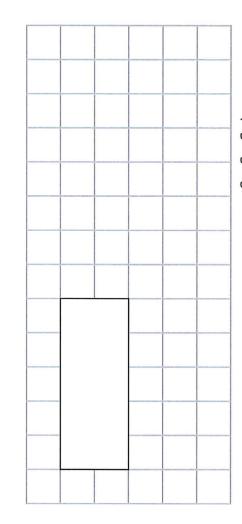
10 000	Beginning Number	_1	Beginning Number
	×		÷ <u>1</u>
	+1		×
	×1		×1
	÷1		хO
	Ending Number		Ending Number

5. Anja stands by the side of the road counting the wheels on the vehicles that go past her. If she counts 250 wheels, how many cars and how many bikes might she have seen?

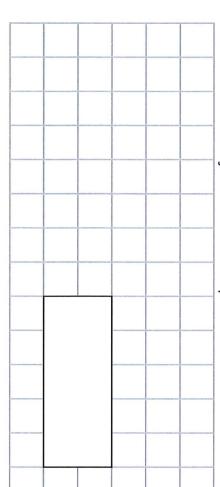
6. Robbie is 90 cm tall. If he grows 10 cm next year and then 1 cm less each year after that, how tall will he be in ten years?



3. Travis has designed a computer program which multiplies any number put in by a number chosen by the computer. He inputs four numbers and the answers which come out are 49, 126, 98 and 154. Which number might his program be multiplying by?

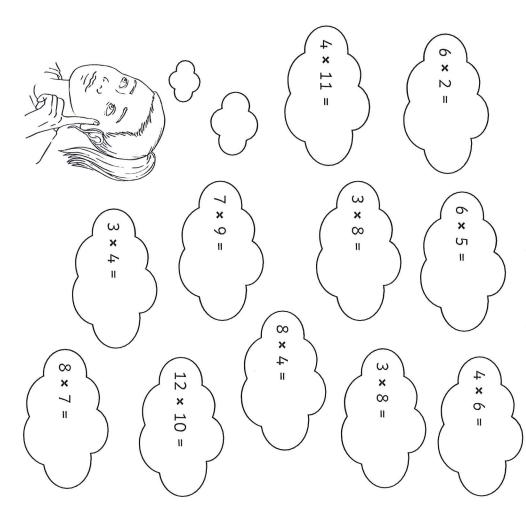


4. Gerrard is making a sequence with shapes – he uses 4 squares, 6 triangles and 3 circles. If he uses the same pattern to make a longer sequence, how many squares would he use if he used 65 shapes in total?



Multiplying Mentally Using Known Facts

Start this activity by recording the answers to these multiplication questions.



80 × 40 =	60 × 20 =	8 × 400 =	600 × 2 =	80 × 4 =	6 × 20 =
70 × 90 =	40 × 110 =	700 × 9 =	4 × 1100 =	7 × 90 =	40 × 11 =
120 × 100 =	60 × 50 =	12 × 1000 =	600 × 5 =	120 × 10 =	6 × 50 =
30 × 40 =	40 × 60 =	300 × 4 =	4 × 600 =	3 × 40 =	40 × 6 =
80 × 70 =	30 × 80 =	8 × 700 =	300 × 8 =	80 × 7 =	3 × 80 =
		2.			!

Correspondence Type Word Problems

Greg gets paid 7p for every newspaper he delivers. How many must he deliver to earn at least 5 pounds?

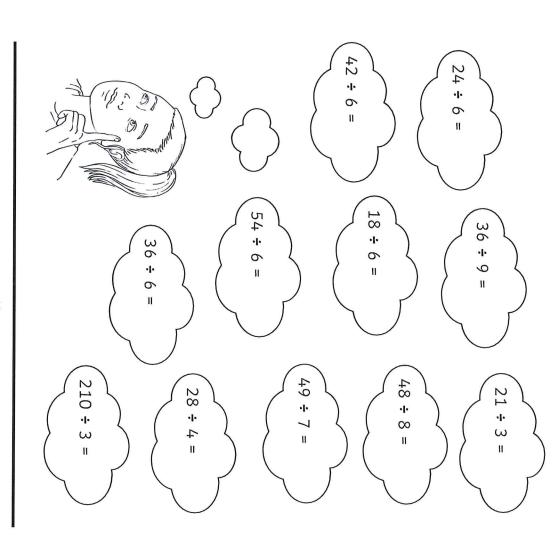
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2. A pizza restaurant offers five different pizzas (Hawaiian, Pepperoni, Vegetarian, Meat Feast and Margherita) and five types of base (Italian, Deep Pan, Stuffed Crust, Square and Thin and Crispy). How many different combinations are available?

1		

Dividing Mentally Using Known Facts

Start this activity by recording the answers to these division questions.



The Commutative Law of Multiplication

Write the order in which you think it is best to multiply these numbers and then work out the calculation.

Tip: you may not need to change every calculation.

Example: $4 \times 17 = 17 \times 4 = 68$

7 × 27 =	29 × 5 =	12 × 4 =	2 × 15 =	28 × 9 =	3 × 18 =	8 × 21 =	7 × 30 =	19 × 3 =	7 × 11 =	4 × 18 =	29 × 6 =	5 × 17 =	3 × 24 =	17 × 4 =
×	× 	× 	× 	× 	×	× 	×	× 	× 	`× 	× 	* 	* 	×
												11		
5 × 17 =	27 × 6 =	7 × 29 =	9 × 24 =	8 × 26 =	21 × 5 =	6 × 24 =	4 × 14 =	17 × 3 =	3 × 24 =	5 × 27 =	15 × 8 =	7 × 17 =	28 × 8 =	4 × 29 =
× 17	7 × 6	× 29	× 24	× 26	1 × 5	× 24	× 14	7 × 3	× 24	× 27	5 × 8	× 17	⊗ × ⊗	× 29

6. Sunnah is planning her party. She has worked out that each party bag will cost 59p to make. How much will it cost her to make party bags for each of her nine friends?

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20		
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7. James gets three sessions of trampolining for £17. How much would 12 sessions cost?

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4. How many squares can she make with nine eggs?

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5. How many squares can the recipe make if she uses 1kg of butter?

Using Commutativity in Mental Calculations

Look at the following questions. Decide if you can use the principle of commutativity (doing the multiplication in any order) to make the calculations easier to answer. If you can't make them any easier, just change the order anyway!

3. 5 × 10 × 4 =	2. 2 × 13 × 2 =	1. 12 × 2 × 5 =

chocolate brownies – she wants to sell them at a fayre. Robyn is using a recipe which requires these ingredients to make

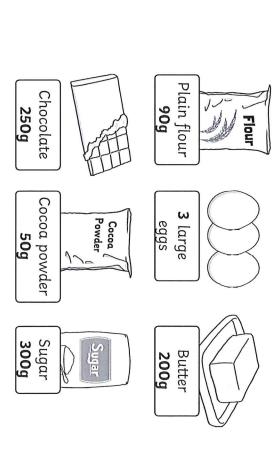
4.

 $5 \times 5 \times 2 =$

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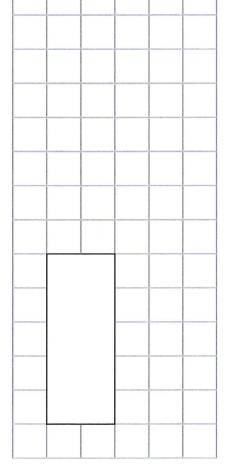
 $5 \times 4 \times 5 =$

6. $12 \times 5 \times 10 =$



information to help answer the questions on the next page. All of the ingredients above will make 16 squares. Use this

3. How much cocoa powder will she need to make 64 squares?



10. $10 \times 136 \times 10 =$

9

 $2 \times 2 \times 11 \times 2 =$

8. $7 \times 13 \times 0 =$

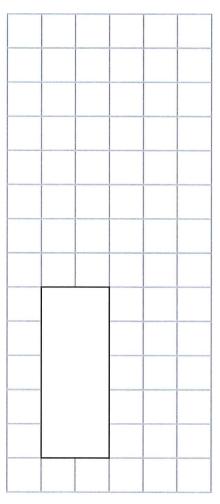
7. $14 \times 5 \times 2 =$

11. $1 \times 2 \times 3 \times 4 \times 5 =$

Problems Involving Scaling Worksheet

Scale the information you have been given up or down to find the answer to each question.

1. Eggs cost 90p for 6. How much would 36 eggs cost?



The length of a toy car is 3cm. Tony wants to make a drawing which is 17 times bigger. How long will the car be in his drawing?

	,	

Multiplying Two-Digit Numbers by One-Digit Numbers Answers

17.		.9	,51	<u>.</u>
× 85	× 4	× 44	× 5	24 × 4
. ₹	14.	10.	6.	2.
× 3	× 87	× 7	48 × 2	× 5
19.	15.	=======================================	7.	ω
× 68	× 8	× 62	× 9	× 18
20.	16.	12.	œ	4.
78 × 7	× 53	× 4	× 7	× 3

Three Digit × One Digit Multiplication

Answer these calculations using either the compact method or the long multiplication method:

7.	5.	ယ	
13	62	26	16
0	9 >	<u> </u>	167 x 3
9	(5	4	ω
00			
	9.	(1)	2. 137 × 3
517	1 17	319	137
×	×	×	×
9	6	ω	ω
	7. 130 x 9 8. 617 x 9	6.29 x 5 6. 130 x 9 8.	261 x 4 629 x 5 130 x 9

25. 1_9	240 × 3 1200	238_ × 4 740	22. 7_2 ×	215	20. 8_4 ×	197_ × 5 1355
33. 8_2	32. -4 \times $\frac{2}{292}$	314_ × 6 <u>4494</u>	30. 4_1 × 2055	290 × 3 1518	28. 4_2 × 1446	27. 1_6 × 680
	40. 6_5 ×	395 × 6 5124	386 × 4 3444	378_ × 2 1766	362_ × 2 258	350_ × 5 4535

× 338 × 7 3456

1644

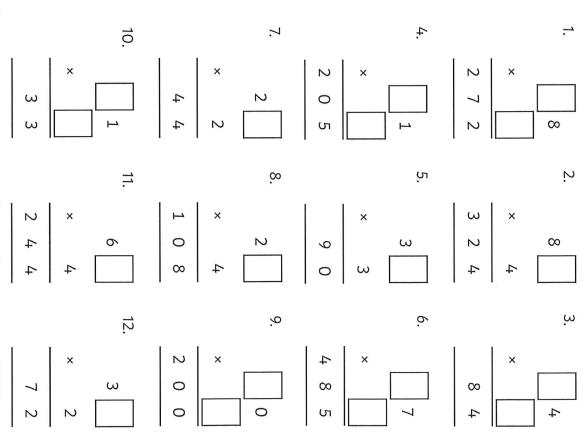
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ltiplying 3-Digit by igit Numbers

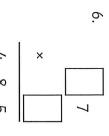
Calculate the missing number in these calculations.

Missing Numbers 2-Digit × 1-Digit Multiplication

Calculate the missing digits in these calculations.

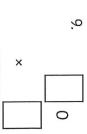


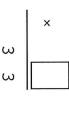


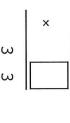


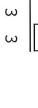


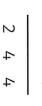












4 × 1 × 1 5 5 1