

Answer Booklet

Year 3 Maths:

Workbook Pack

Year 3 Programme of Study: Multiplication and Division

Statutory Requirements	Worksheet	Page Number	Notes
Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Multiplication 4 times tables word search	3	
	Multiplication 3 times tables word search	4	
	Multiplication 8 times tables word search	5	
	Dividing by 3 race	6	
	Dividing by 4 race	7	
	Dividing by 8 race	8	
	Tables at the Double	9	
	Multiplication triangles activity sheet 3, 4 and 8 times tables	10 - 11	
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.	Mental Multiplication	12	
	Multiplying 2-digit numbers by 1-digit numbers using grid method	13	
	New bus stop method formal division of 2-digit numbers	14	
	Division using a numberline	15 - 17	
Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	I'm thinking of a number	18 - 19	
	Deriving multiplication facts	20	
	Multiplication and division missing numbers	21 - 24	
	Scaling problems	25 - 26	
	Colour the division equation	27	

Word Search 4 Times Table: Answers

question	answer									
	f	t	h	i	r	t	y	t	w	o
	t	o	h	f	o	r	t	y	w	o
	w	t	r	s	i	x	e	e	t	e
	e	w	r	t	e	s	e	s	h	i
	l	s	e	l	y	n	l	h	i	g
	v	k	i	e	t	f	e	e	r	h
	e	a	e	y	e	a	o	t	t	t
	f	o	r	t	e	o	o	u	y	e
	o	n	n	e	e	t	h	g	r	e
	s	i	x	t	e	e	n	b	n	n

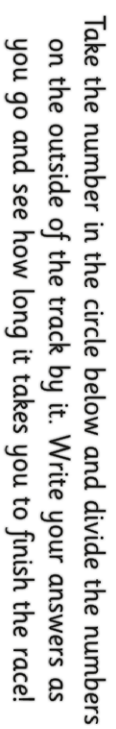
Word Search 3 Times Table: Answers

question	answer									
	e	t	h	i	r	t	y	n	e	l
	t	n	h	x	t	t	e	r	t	o
	w	i	u	e	d	b	i	w	n	e
	e	n	r	w	e	s	e	e	o	s
	l	e	e	l	p	n	e	h	u	i
	v	k	e	e	t	t	i	e	r	x
	e	a	e	y	h	a	u	t	n	e
	m	q	o	g	e	o	o	k	i	e
	o	n	i	e	e	t	h	g	n	e
	e	e	d	j	p	z	o	b	n	n

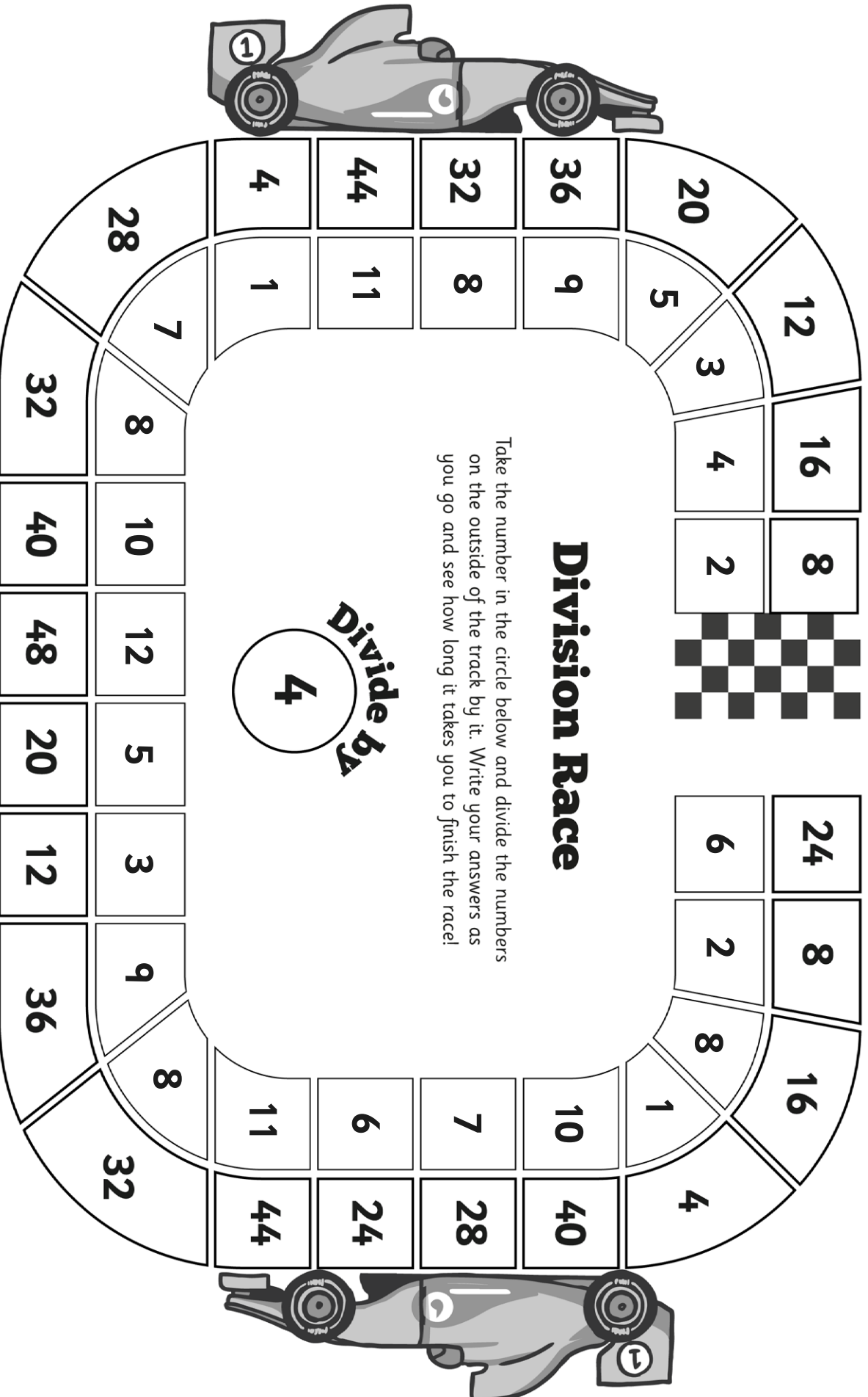
Word Search 8 Times Table: Answers

question	answer									
	t	o	e	v	e	n	e	y	i	e
	h	w	h	t	w	e	t	v	e	f
	i	t	e	e	d	b	g	n	o	t
	r	y	e	n	e	s	h	r	h	f
	t	t	e	e	t	y	t	e	i	t
	y	r	i	r	t	y	y	e	r	y
	t	i	y	t	r	o	f	t	t	s
	w	h	e	w	u	o	u	o	y	i
	o	t	o	o	e	t	e	o	u	x
	e	s	i	x	t	e	e	n	n	r

Start

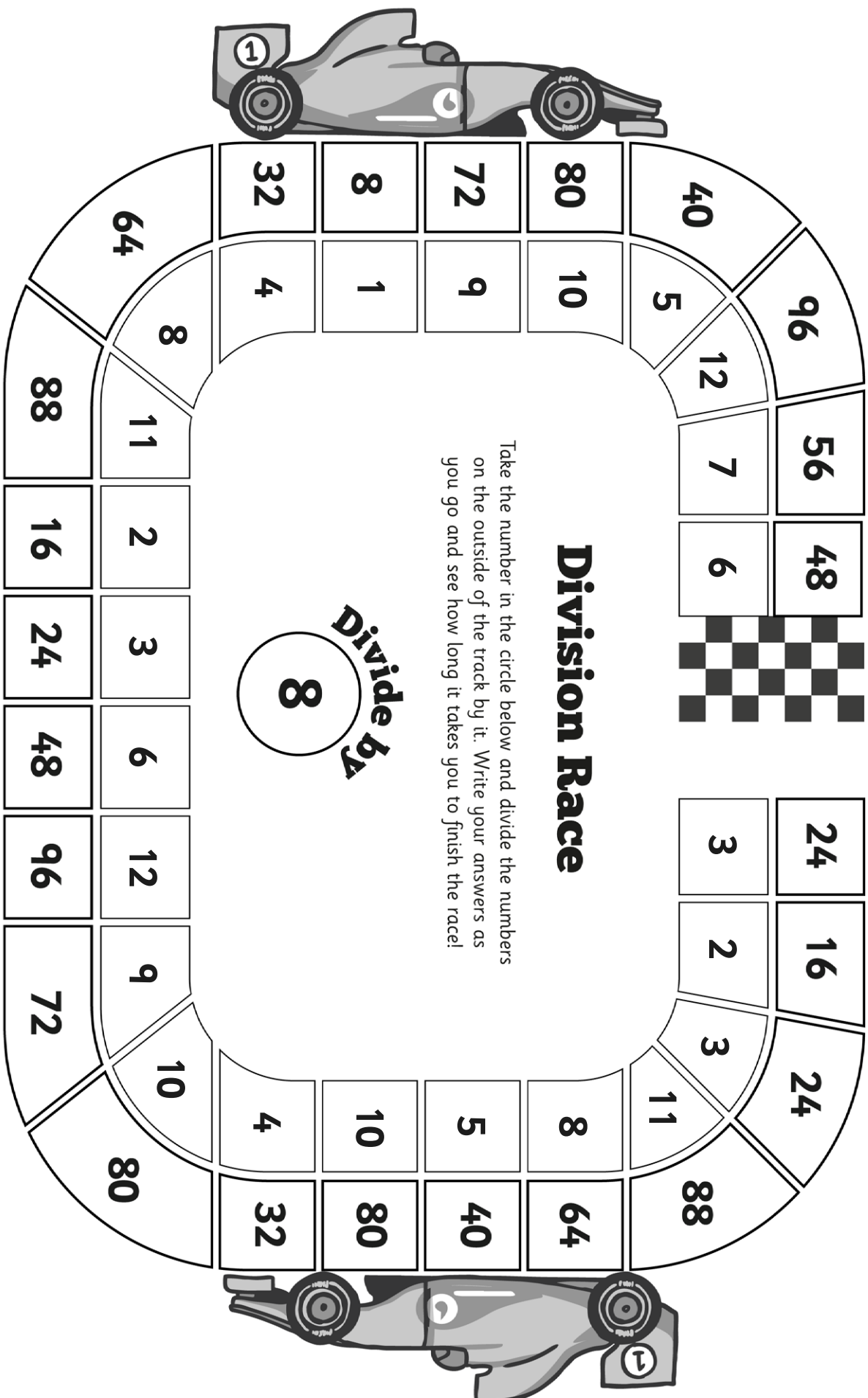


Division by 4 Race



Division by 8 Race

Start 



Tables at the Double: Answers

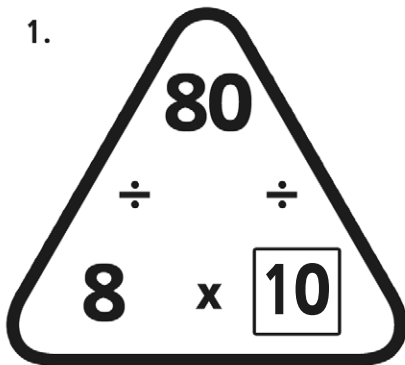
question	answer		
	x2	x4	x8
2	4	8	16
3	6	12	24
4	8	16	32
5	10	20	40
6	12	24	48
7	14	28	56
8	16	32	64
9	18	36	72
10	20	40	80
11	22	44	88
12	24	48	96
15	30	60	120
20	40	80	160
50	100	200	400
100	200	400	800

Tables at the Double: Answers

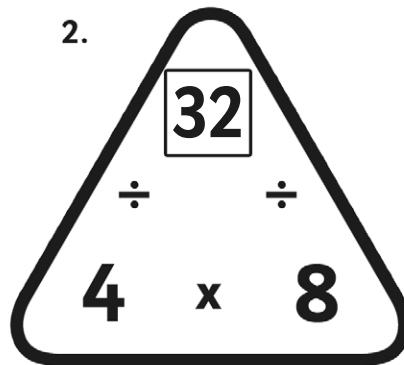
question	answer
1	3
2	36
3	3
4	7
5	72
6	8
7	5
8	24
9	4
10	4
11	64
12	8
13	10
14	32
15	4
16	2
17	16
18	3
19	5
20	16
21	8
22	12
23	28
24	8

Multiplication Triangles Activity Sheet: Answers

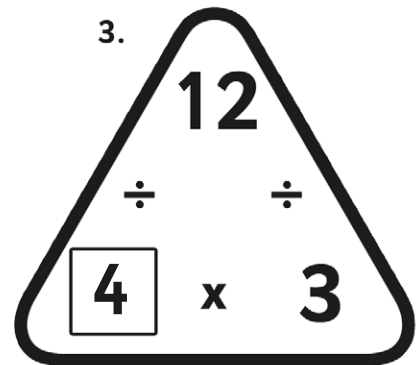
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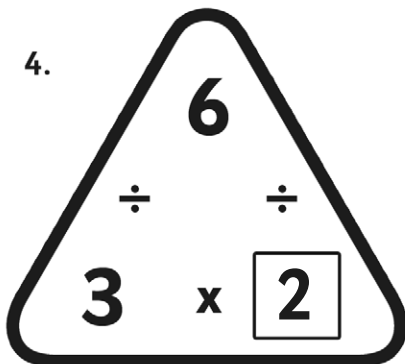
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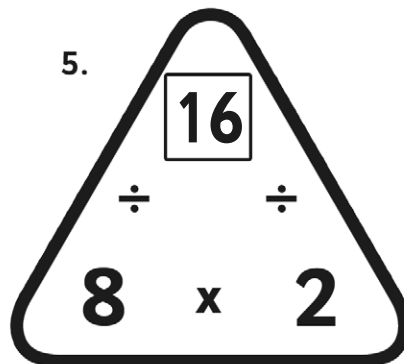
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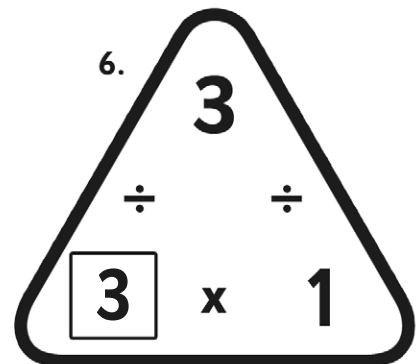
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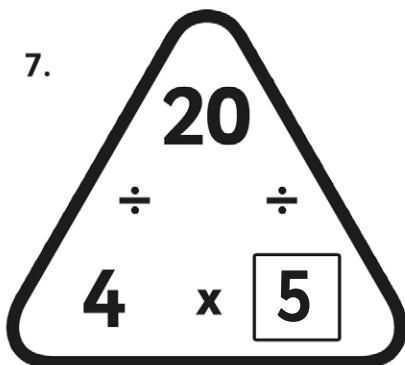
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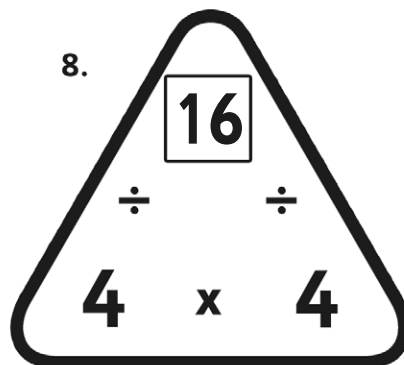
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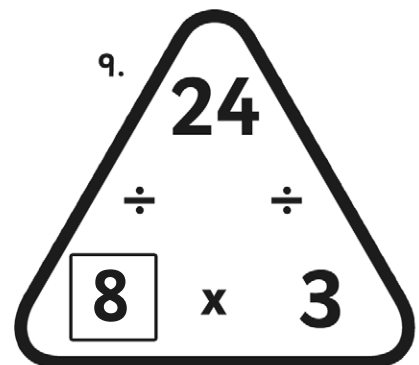
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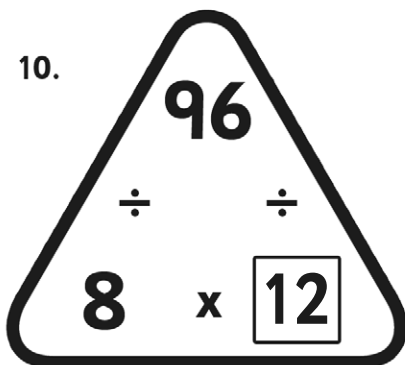
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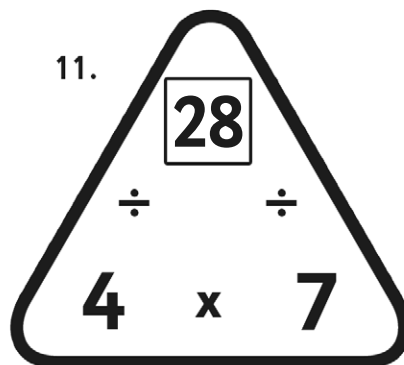
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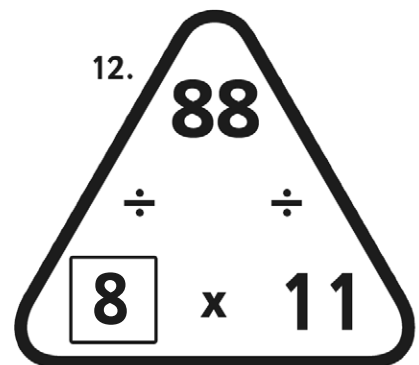
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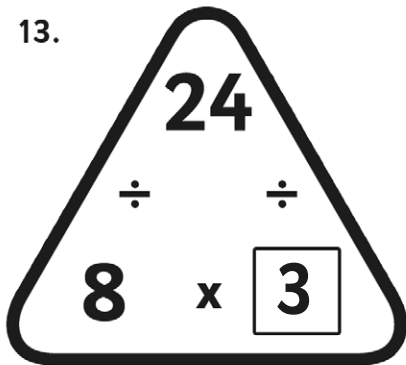


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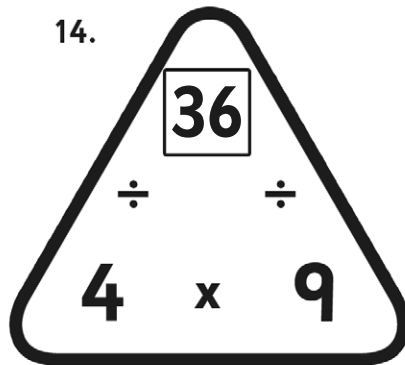


Multiplication Triangles Activity Sheet: Answers

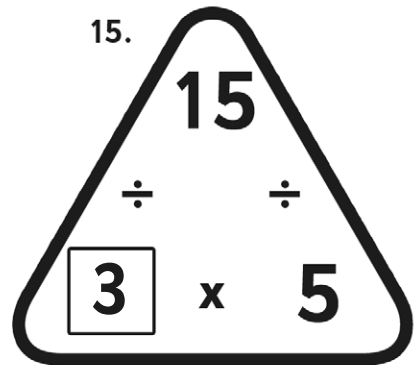
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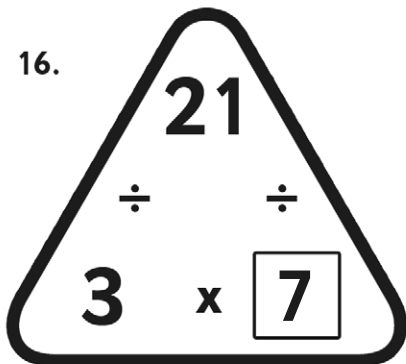
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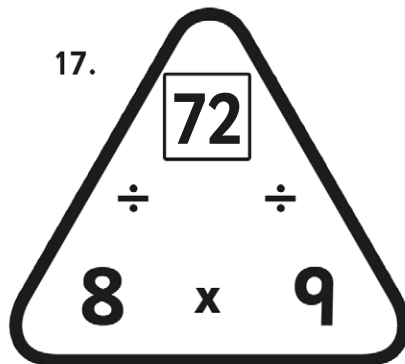
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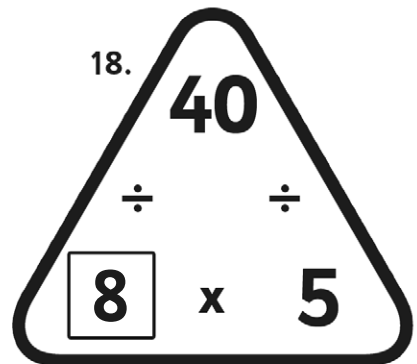
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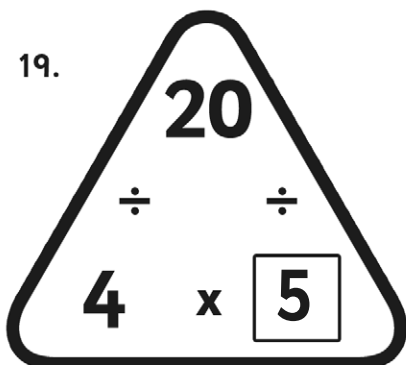
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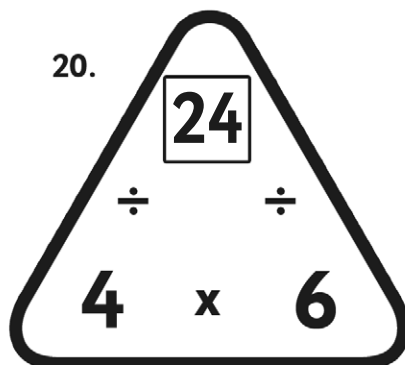
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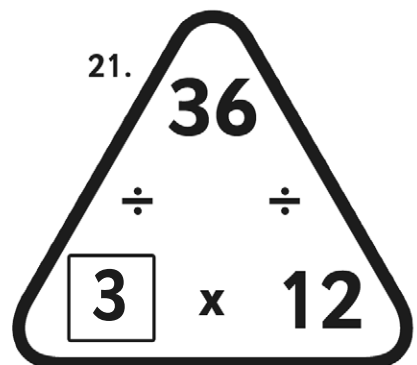
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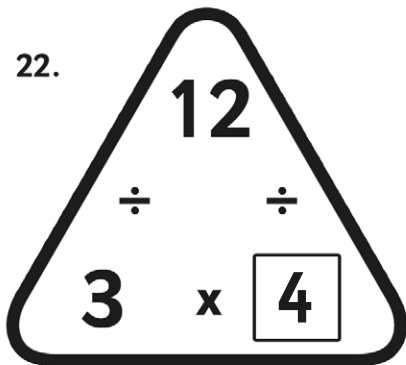
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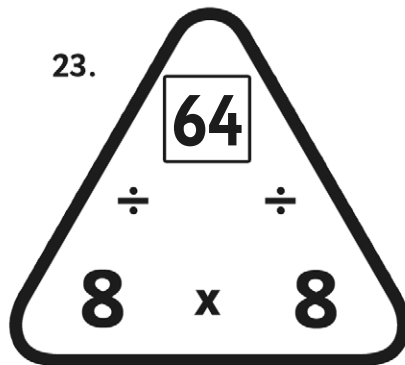
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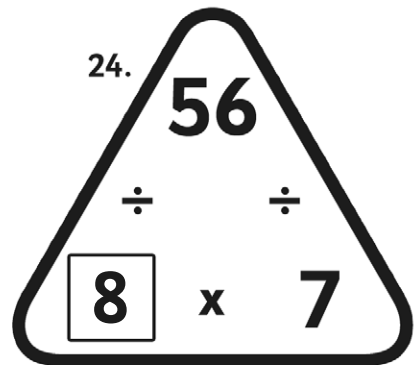
22.



23.



24.



Mental Multiplication: Answers

question	answer	question	answer
1	56	12	45
2	65	13	60
3	48	14	100
4	72	15	40
5	99	16	108
6	90	17	143
7	60	18	120
8	45	19	32
9	96	20	135
10	117	21	165
11	110	22	112

Multiplying 2-digit Numbers by 1-digit Numbers Using Grid Method: Answers

question	answer
1	$13 \times 9 = 117$
2	$71 \times 5 = 355$
3	$56 \times 5 = 280$
4	$23 \times 3 = 69$
5	$89 \times 9 = 801$
6	$63 \times 7 = 441$
7	$75 \times 9 = 675$
8	$13 \times 5 = 65$
9	$28 \times 9 = 252$
10	$53 \times 8 = 424$

Bus Stop Method Division - 2-Digit Numbers: Answers

question	answer
1	23
2	22
3	18
4	19
5	24
6	14
7	12
8	14
9	12
10	13
11	24
12	15
13	12
14	16
15	11
16	20
17	19
18	23
19	23
20	13
21	23
22	21
23	24
24	10
25	22
26	16
27	14
28	22
29	21
30	13

Division Using a Numberline: Answers

question	answer	question	
1	4	13	14
2	3	14	8
3	3	15	13
4	4	16	14
5	6	17	8
6	3	18	9
7	12	19	12
8	12	20	11
9	6	21	22
10	3	22	8
11	4	23	13
12	4	24	12

I'm Thinking of a Number: Answers

question	answer
1	9
2	44
3	40
4	8
5	4
6	36

Deriving Related Multiplication Facts From Known Multiplication Tables: Answers

question	answer			
	 lorry 1	 lorry 2	 lorry 3	 lorry 4
1	$3 \times 4 = 12$	$3 \times 40 = 120$	$4 \times 30 = 120$	$4 \times 3 = 12$
2	$3 \times 6 = 18$	$3 \times 60 = 180$	$6 \times 30 = 180$	$6 \times 3 = 18$
3	$3 \times 7 = 21$	$3 \times 70 = 210$	$7 \times 30 = 210$	$7 \times 3 = 21$
4	$4 \times 4 = 16$	$4 \times 40 = 160$	$40 \times 4 = 160$	$4 \times 4 = 16$
5	$4 \times 7 = 28$	$40 \times 7 = 280$	$7 \times 40 = 280$	$7 \times 4 = 28$
6	$3 \times 8 = 24$	$30 \times 8 = 240$	$8 \times 30 = 240$	$8 \times 3 = 24$
7	$4 \times 9 = 36$	$4 \times 90 = 360$	$9 \times 40 = 360$	$9 \times 4 = 36$
8	$8 \times 5 = 40$	$8 \times 50 = 400$	$5 \times 80 = 400$	$5 \times 8 = 40$
9	$8 \times 9 = 72$	$8 \times 90 = 720$	$9 \times 80 = 720$	$9 \times 8 = 72$
10	$8 \times 6 = 48$	$8 \times 60 = 480$	$6 \times 80 = 480$	$6 \times 8 = 48$

Multiplication Missing Numbers: Answers

question	answer	question	answer
1	$7 \times 5 = 35$	12	$8 \times 9 = 72$
2	$4 \times 4 = 16$	13	$3 \times 8 = 24$
3	$7 \times 8 = 56$	14	$12 \times 5 = 60$
4	$3 \times 6 = 18$	15	$2 \times 9 = 18$
5	$5 \times 8 = 40$	16	$12 \times 1 = 12$
6	$1 \times 8 = 8$	17	$9 \times 4 = 36$
7	$7 \times 4 = 28$	18	$3 \times 9 = 27$
8	$4 \times 8 = 32$	19	$6 \times 5 = 30$
9	$7 \times 4 = 28$	20	$5 \times 11 = 55$
10	$2 \times 11 = 22$	21	$5 \times 5 = 25$
11	$3 \times 2 = 6$		

Division Missing Numbers: Answers

question	answer	question	answer
1	$8 \div 4 = 2$	12	$20 \div 5 = 4$
2	$10 \div 5 = 2$	13	$27 \div 3 = 9$
3	$18 \div 3 = 6$	14	$18 \div 2 = 9$
4	$12 \div 4 = 3$	15	$28 \div 4 = 7$
5	$12 \div 3 = 4$	16	$48 \div 4 = 12$
6	$15 \div 5 = 3$	17	$40 \div 5 = 8$
7	$24 \div 8 = 3$	18	$22 \div 2 = 11$
8	$20 \div 5 = 4$	19	$30 \div 2 = 15$
9	$15 \div 3 = 5$	20	$33 \div 11 = 3$
10	$9 \div 3 = 3$	21	$21 \div 3 = 7$
11	$14 \div 2 = 7$		

Scaling Numbers: Answers

question	answer
1	21
2	5
3	40p
4	20
5	8
6	24p
7	Lisa: 4 Ned: 8 Mina: 16
8	36m

Colour the Division Equation: Answers

Round 1

15	6	8	60	5	12	1	12
5	1	5	7	16	4	23	12
3	21	4	9	7	3	1	1
8	3	20	10	2	17	16	1
4	1	1	5	3	16	2	8
32	18	9	2	2	4	7	2
25	3	15	3	4	4	4	16
18	6	1	6	9	13	9	14

Round 2

88	10	31	1	41	21	6	27
8	25	23	4	4	7	9	9
11	1	11	9	21	3	9	3
3	15	5	2	10	12	14	24
33	3	55	3	4	4	16	8
4	44	11	2	40	8	5	15
7	8	13	2	5	2	10	20
28	4	7	8	8	4	2	2

Round 3

24	12	2	1	3	7	14	35
21	17	4	9	8	10	2	5
19	20	8	4	32	2	7	7
6	10	2	20	11	5	5	25
5	5	4	5	15	3	1	3
4	2	3	6	2	36	5	2
4	18	9	10	13	12	2	6
16	16	3	27	9	14	12	15

Round 4

14	18	20	2	10	2	15	6
7	17	4	9	8	4	32	23
2	10	5	22	80	14	8	16
11	9	3	9	28	7	4	10
7	90	15	13	8	35	19	24
25	4	2	15	3	5	6	30
21	12	4	5	12	20	20	10
48	6	8	12	4	4	16	3