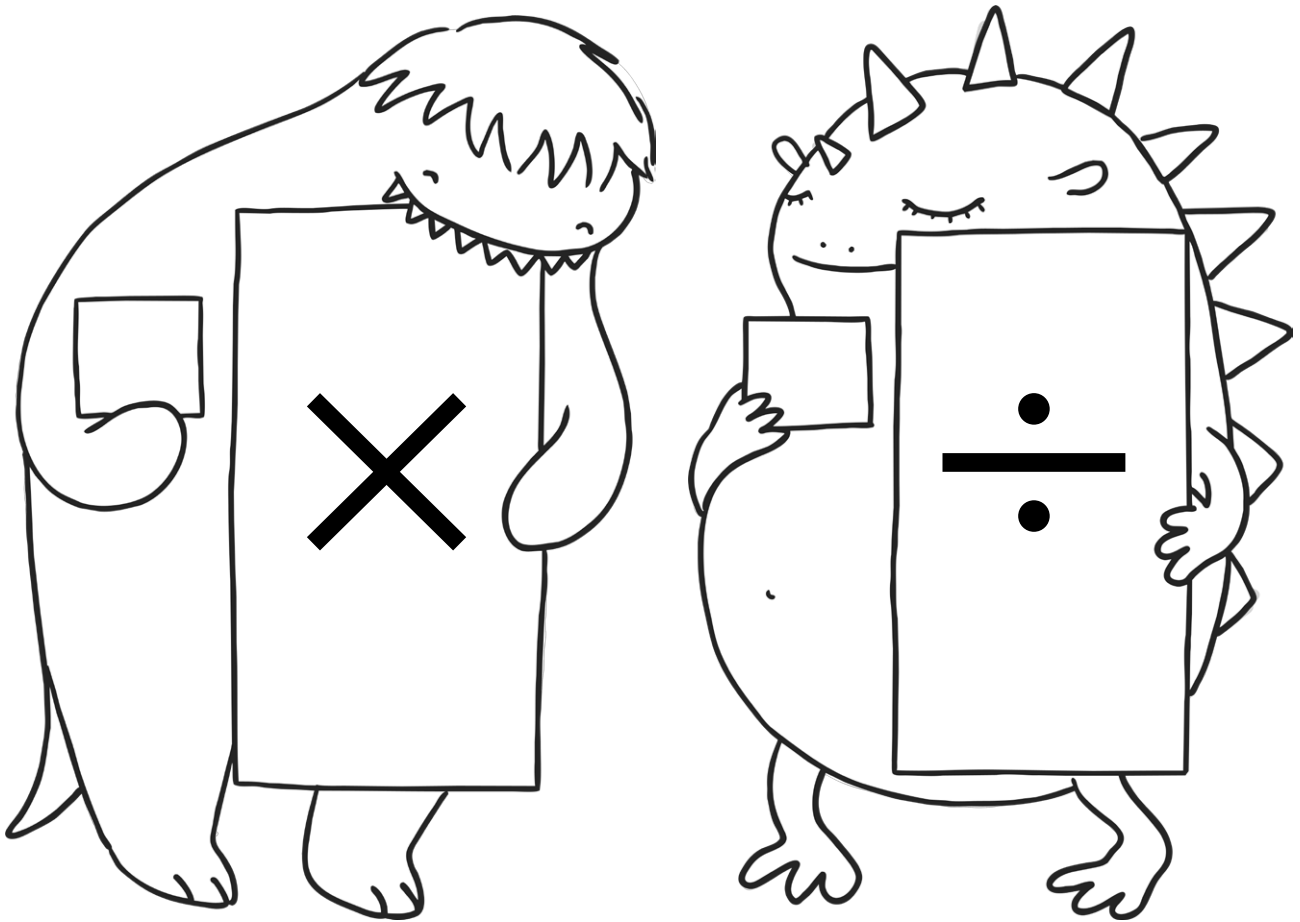


Maths

Multiplication and Division



Workbook



Word Search 4 Times table

Answer the calculations below and find the answers in the word search:

$4 \times 3 =$

$4 \times 4 =$

$4 \times 11 =$

$4 \times 8 =$

$4 \times 10 =$

$4 \times 2 =$

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

Answer the calculations below and find the answers in the word search:

$3 \times 3 =$

$3 \times 4 =$

$3 \times 10 =$

$3 \times 6 =$

$3 \times 2 =$

$3 \times 7 =$

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

Answer the calculations below and find the answers in the word search:

$5 \times 8 =$

$8 \times 7 =$

$8 \times 3 =$

$4 \times 8 =$

$8 \times 10 =$

$8 \times 2 =$

t	o	e	v	e	n	e	y	i	e
h	w	h	t	w	e	i	v	e	f
i	t	e	e	d	b	g	n	o	i
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

Division by 3 Race



Division Race

Take the number in the circle below and divide the numbers on the outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!

Divide by
3

Division by 4 Race

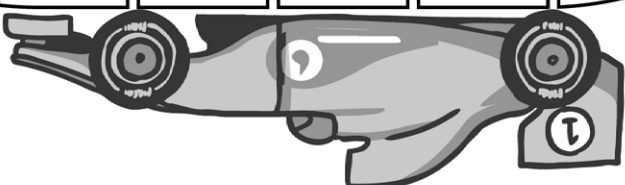
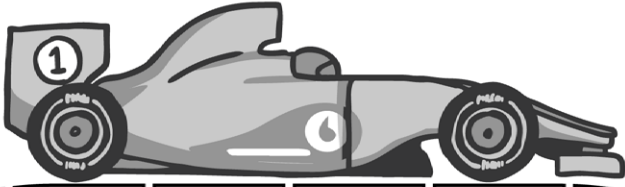


Division Race

Take the number in the circle below and divide the numbers on the outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!

Divide by

4



Division by 8 Race



Division Race

Take the number in the circle below and divide the numbers on the outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!

Divide by 8

40	96	56	48	24	16	24	88
80							80
72							40
8							80
32							32
64							64
88							88
16							16
24							24
48							48
96							96
72							72
80							80

Table at the Double

Find the 2x table by doubling each number. Find the 4x table by doubling the 2x table. Find the 8 times table by doubling the 4x table. Can you complete the whole sheet?

Number	x2	x4	x8
2	4	8	16
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
15			
20			
50			
100			

Multiplication Triangles Sheet 1

Fill in the blanks in these multiplication triangles.

1.

$$\begin{array}{c} 80 \\ \div \quad \div \\ 8 \quad \times \quad \square \end{array}$$

2.

$$\begin{array}{c} \square \\ \div \quad \div \\ 4 \quad \times \quad 8 \end{array}$$

3.

$$\begin{array}{c} 12 \\ \div \quad \div \\ \square \quad \times \quad 3 \end{array}$$

4.

$$\begin{array}{c} 6 \\ \div \quad \div \\ 3 \quad \times \quad \square \end{array}$$

5.

$$\begin{array}{c} \square \\ \div \quad \div \\ 8 \quad \times \quad 2 \end{array}$$

6.

$$\begin{array}{c} 3 \\ \div \quad \div \\ \square \quad \times \quad 1 \end{array}$$

7.

$$\begin{array}{c} 20 \\ \div \quad \div \\ 4 \quad \times \quad \square \end{array}$$

8.

$$\begin{array}{c} \square \\ \div \quad \div \\ 4 \quad \times \quad 4 \end{array}$$

9.

$$\begin{array}{c} 24 \\ \div \quad \div \\ \square \quad \times \quad 3 \end{array}$$

10.

$$\begin{array}{c} 96 \\ \div \quad \div \\ 8 \quad \times \quad \square \end{array}$$

11.

$$\begin{array}{c} \square \\ \div \quad \div \\ 4 \quad \times \quad 7 \end{array}$$

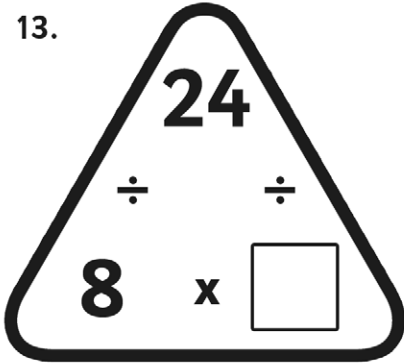
12.

$$\begin{array}{c} 88 \\ \div \quad \div \\ \square \quad \times \quad 11 \end{array}$$

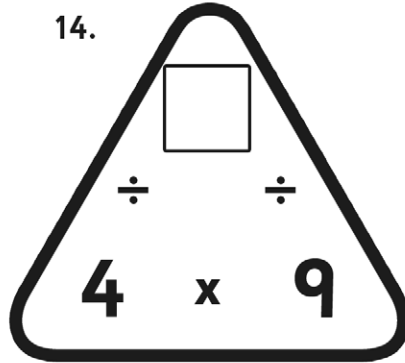
Multiplication Triangles Sheet 2

Fill in the blanks in these multiplication triangles.

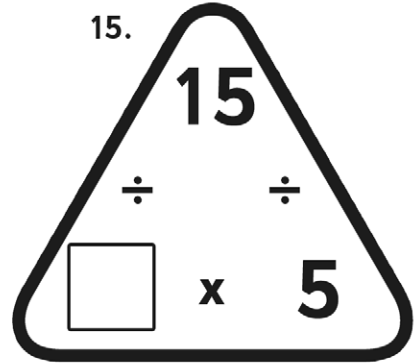
13.



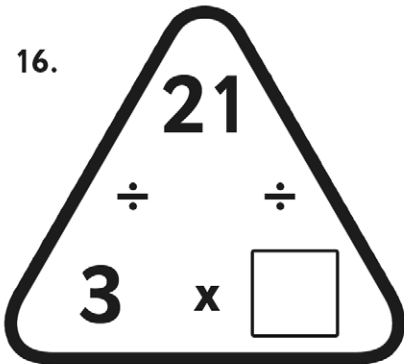
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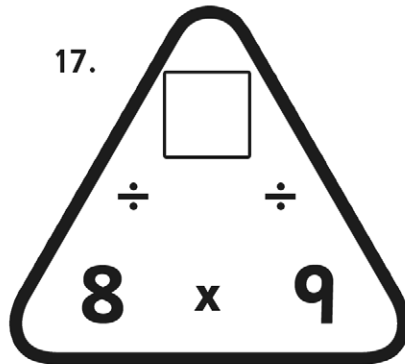
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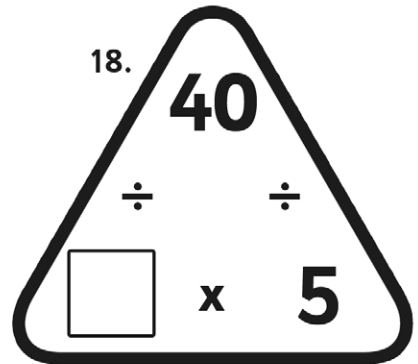
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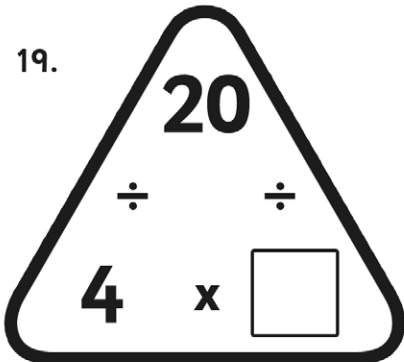
17.



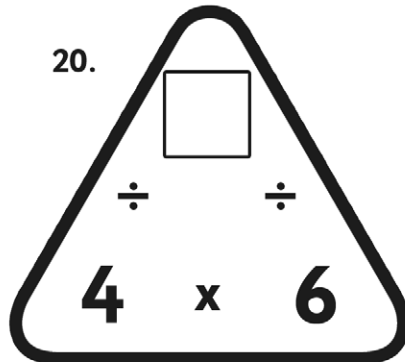
18.



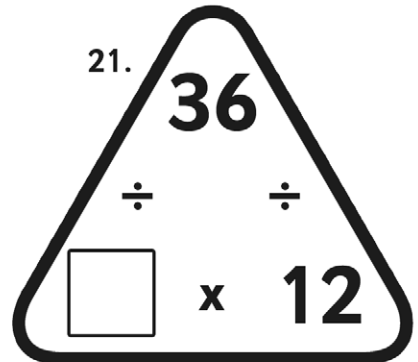
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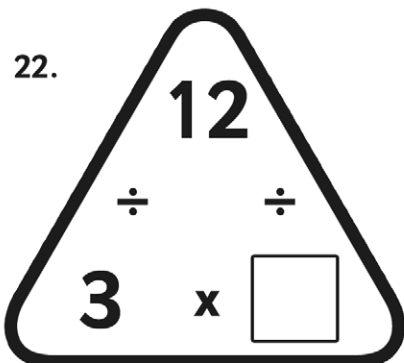
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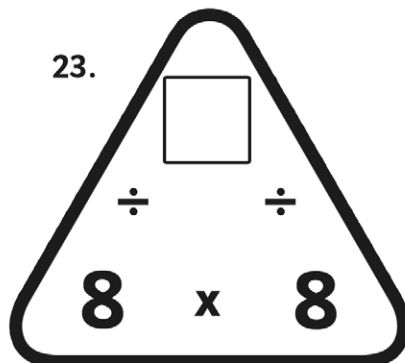
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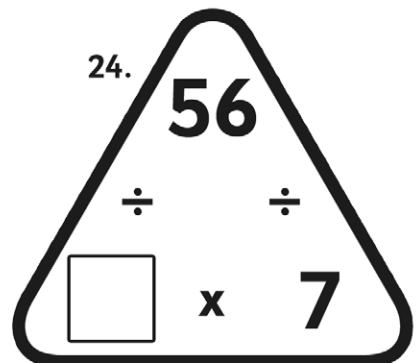
22.



23.



24.



Mental Multiplication

Try using these mental calculation strategies to see how many of these calculations you can perform mentally.

x4

Double the number and then double it again.

e.g. $13 \times 4 = 52$
($13 \times 2 = 26$,
 $26 \times 2 = 52$)

x5

Multiply the number by 10 and then half it.

e.g. $14 \times 5 = 70$
($14 \times 10 = 140$, divided by
 $2 = 70$)

x8

Double the number, double it again and then double it a third time.

e.g. $13 \times 8 = 104$
($13 \times 2 = 26$, $26 \times 2 = 52$,
 $52 \times 2 = 104$)

x9

Multiply the number by 10 and then subtract the number.

e.g. $15 \times 9 = 135$ ($15 \times 10 = 150$, $150 - 15 = 135$)

x11

Multiply the number by 10 and then add the number.

e.g. $7 \times 11 = 77$ ($7 \times 10 = 70$, $70 + 7 = 77$)

x15

Multiply the number by 10 and then add half of the total.

e.g. $12 \times 15 = 180$
($12 \times 10 = 120$, 120 divided by $2 = 60$, $60 + 120 = 180$)

- $14 \times 4 =$
- $13 \times 5 =$
- $6 \times 8 =$
- $8 \times 9 =$
- $9 \times 11 =$
- $6 \times 15 =$
- $15 \times 4 =$
- $9 \times 5 =$
- $12 \times 8 =$
- $13 \times 9 =$
- $10 \times 11 =$
- $3 \times 15 =$
- $15 \times 4 =$
- $20 \times 5 =$
- $5 \times 8 =$
- $12 \times 9 =$
- $13 \times 11 =$
- $8 \times 15 =$
- $4 \times 8 =$
- $9 \times 15 =$
- $11 \times 15 =$
- $14 \times 8 =$

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

Multiplying 2-Digit Numbers by 1-Digit Numbers Using the Grid Method

1.

×	10	3
9		

2.

×	70	1
5		

3.

×	50	6
5		

4.

×	20	3
3		

5.

×	80	9
9		

6.

×	60	3
7		

7.

×	70	5
9		

8.

×	10	3
5		

9.

×	20	8
9		

10.

×	50	3
8		

New Bus Stop Method Formal Division of 2-digit Numbers

LO: I can use a formal method of division

1. $69 \div 3 =$

16. $80 \div 4 =$

2. $88 \div 4 =$

17. $95 \div 5 =$

3. $90 \div 5 =$

18. $92 \div 4 =$

4. $76 \div 4 =$

19. $46 \div 2 =$

5. $72 \div 3 =$

20. $78 \div 6 =$

6. $70 \div 5 =$

21. $92 \div 4 =$

7. $24 \div 2 =$

22. $84 \div 4 =$

8. $56 \div 4 =$

23. $72 \div 3 =$

9. $36 \div 3 =$

24. $70 \div 7 =$

10. $65 \div 5 =$

25. $88 \div 4 =$

11. $96 \div 4 =$

26. $80 \div 5 =$

12. $90 \div 6 =$

27. $98 \div 7 =$

13. $96 \div 8 =$

28. $66 \div 3 =$

14. $96 \div 6 =$

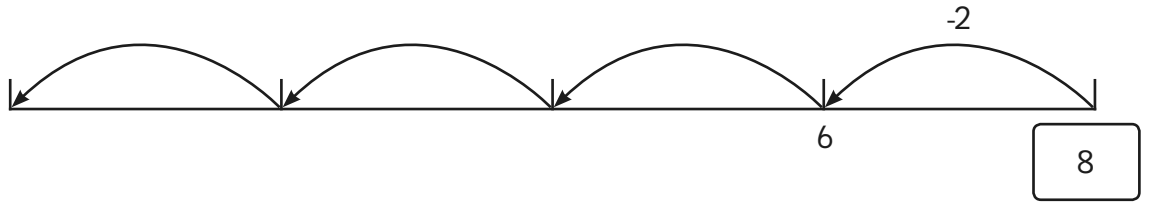
29. $84 \div 4 =$

15. $88 \div 8 =$

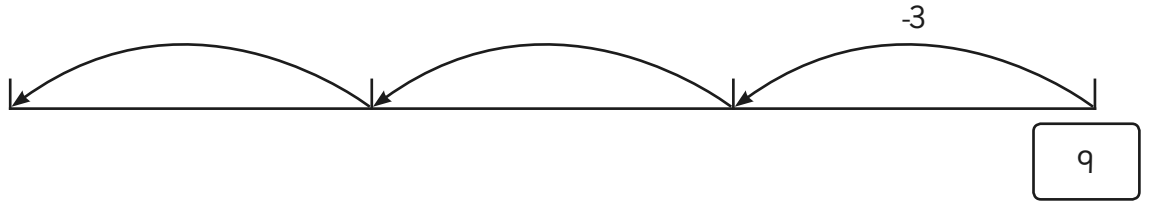
30. $91 \div 7 =$

Division Using a Numberline

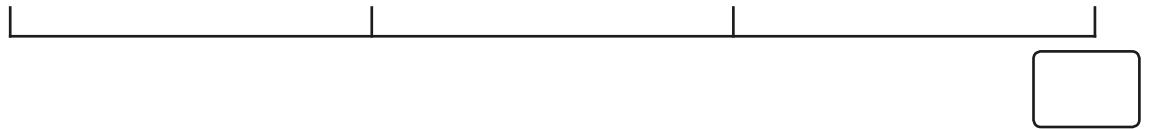
1. $8 \div 2 =$



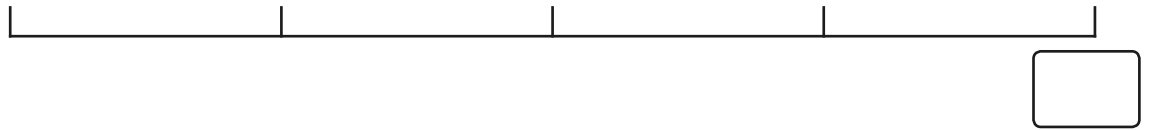
2. $9 \div 3 =$



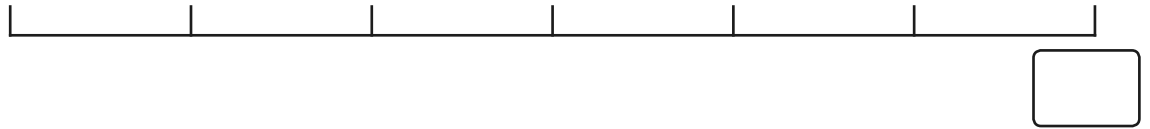
3. $12 \div 4 =$



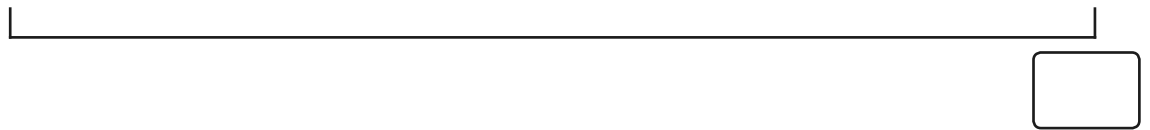
4. $12 \div 3 =$



5. $18 \div 3 =$



6. $18 \div 6 =$



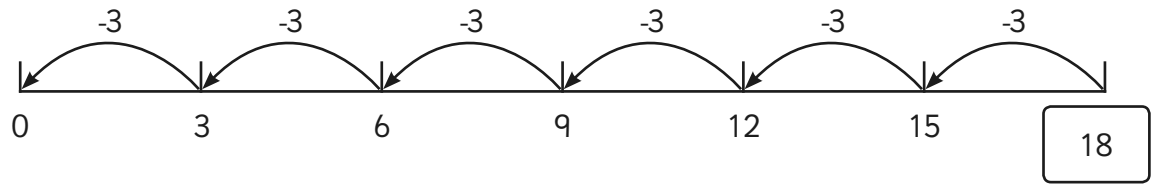
7. $36 \div 3 =$



8. $48 \div 4 =$



9. $18 \div 3 = 6$



10. $18 \div 6 =$

11. $28 \div 7 =$

12. $32 \div 8 =$

13. $42 \div 3 =$

14. $32 \div 4 =$

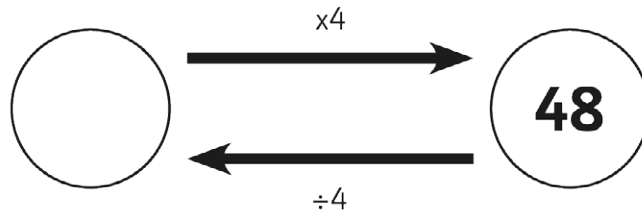
15. $52 \div 4 =$

16. $70 \div 5 =$

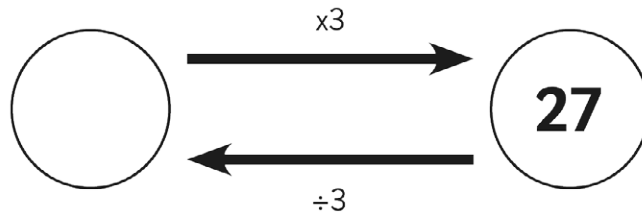
I'm Thinking of a Number

Use the inverse operation to work backwards and find the original number.

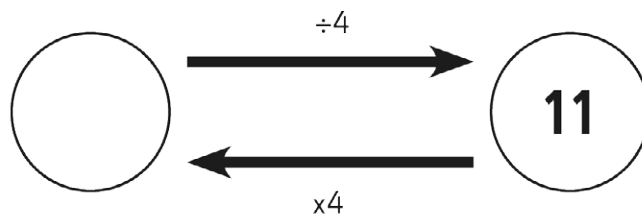
e.g. Samiya is thinking of a number. She multiplies it by 4 and her new number is 48. What number was she first thinking of?



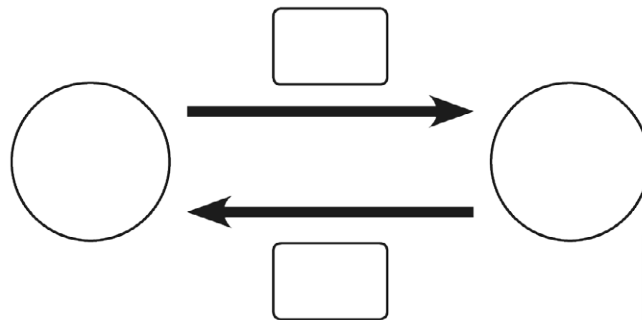
1. Nat is thinking of a number. He multiplies it by 3 and his new number is 27. What number was he first thinking of?



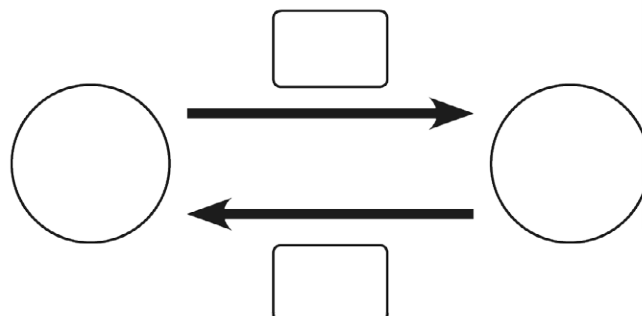
2. Shahid is thinking of a number. He divides it by 4 and his new number is 11. What number was he first thinking of?



3. Esme is thinking of a number. She divides it by 8 and her new number is 5. What number was she first thinking of?



4. Taylor is thinking of a number. He multiplies it by 3 and his new number is 24. What number was he first thinking of?



5. Levi is thinking of a number. He multiplies it by 8 and his answer is 32. What number was he first thinking of?

6. Vivi is thinking of a number. She divides it by 3 and her new number is 12. What number was she first thinking of?

Deriving Related Multiplication Facts From Known Multiplication Tables

Complete the times tables question on the small lorries then use the answers to complete the associated facts on the big lorries!


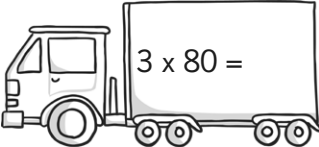


1. $3 \times 4 =$ $3 \times 40 =$ $4 \times 30 =$ $4 \times 3 =$

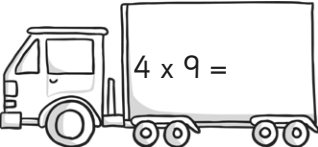
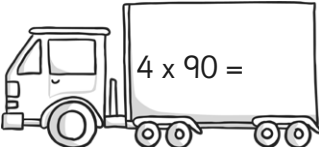


2. $3 \times 6 =$ $3 \times 60 =$ $6 \times 30 =$ $6 \times 3 =$





3. $3 \times 7 =$ $3 \times 70 =$ $7 \times 30 =$ $7 \times 3 =$





4. $4 \times 4 =$ $4 \times 40 =$ $40 \times 4 =$ $4 \times 4 =$





5. $4 \times 7 =$ $40 \times 7 =$ $7 \times 40 =$ $7 \times 4 =$

6.  $3 \times 8 =$  $3 \times 80 =$  $8 \times 30 =$ 

7.  $4 \times 9 =$  $4 \times 90 =$  

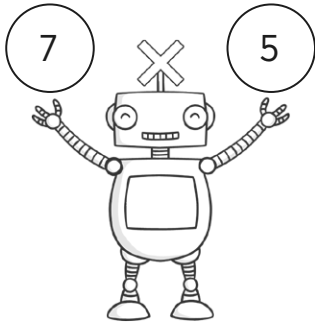
8.  $8 \times 5 =$   

9.  $8 \times 9 =$   

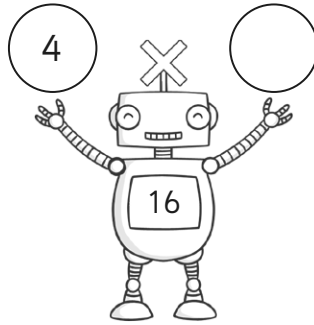
10.  $8 \times 6 =$   

Multiplication Missing Numbers

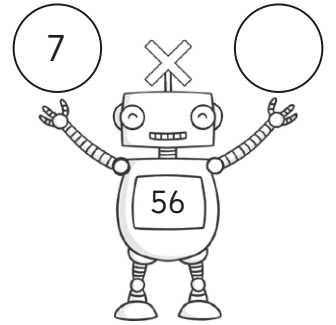
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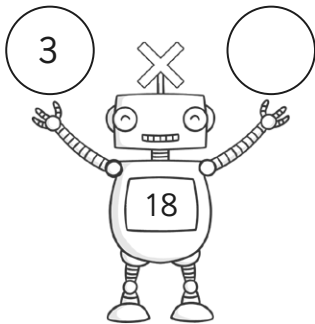
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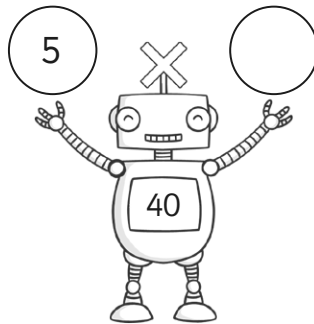
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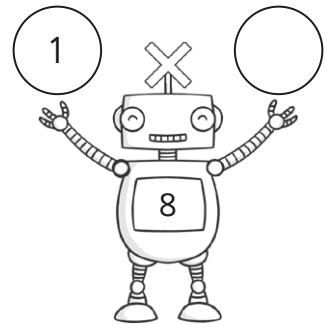
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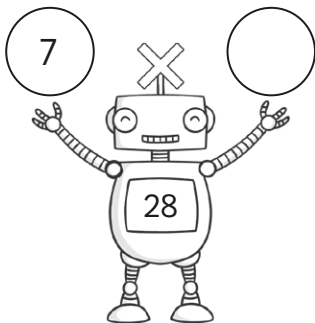
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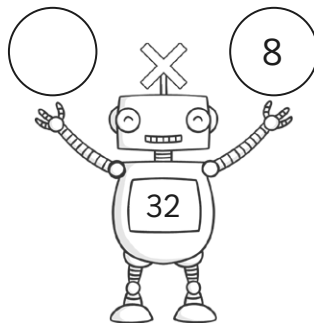
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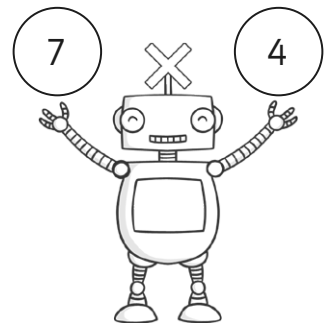
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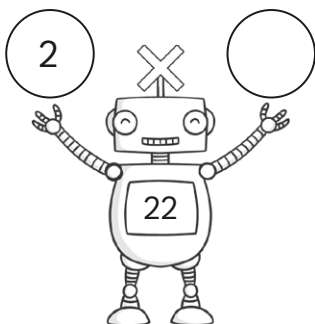
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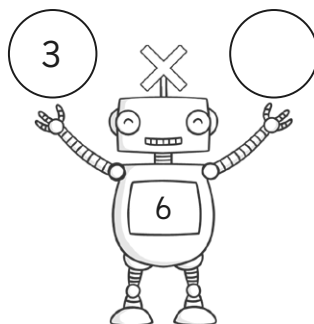
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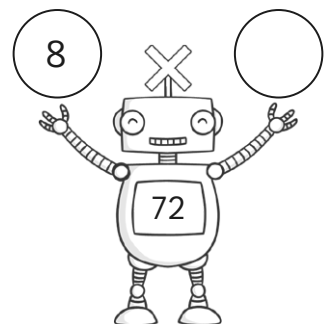
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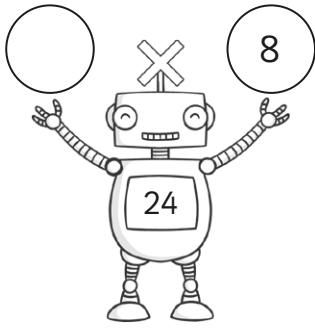
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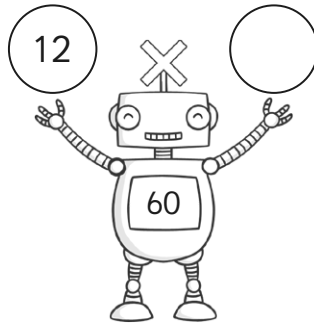
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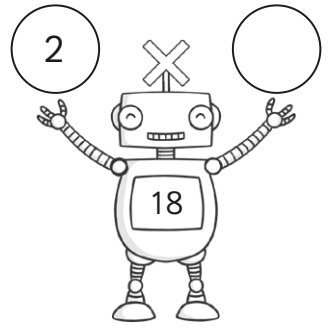
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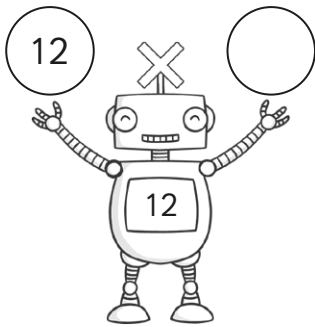
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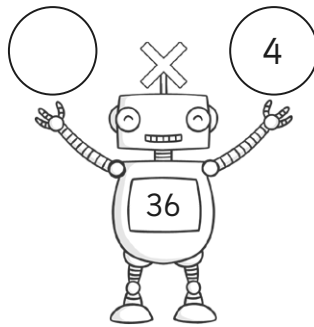
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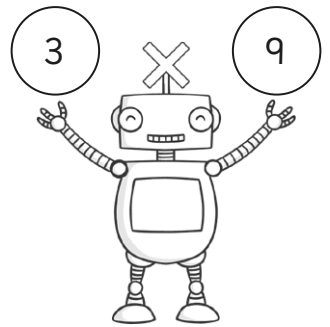
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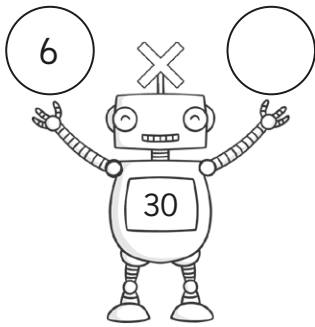
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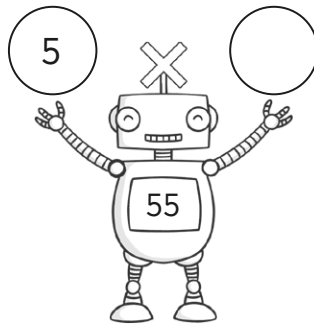
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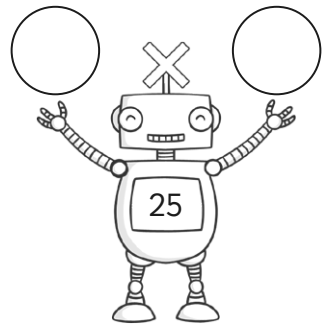
19.



20.

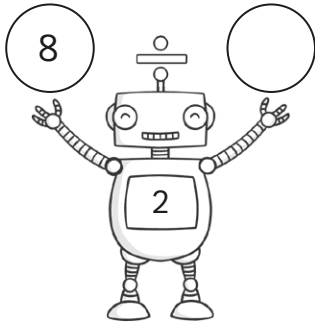


21.

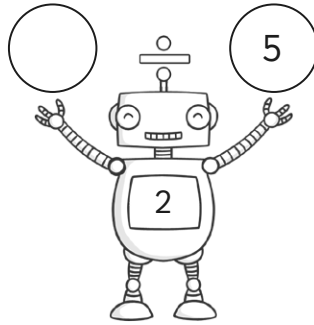


Division Missing Numbers

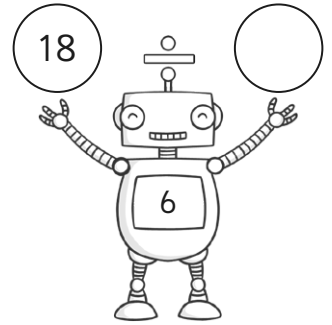
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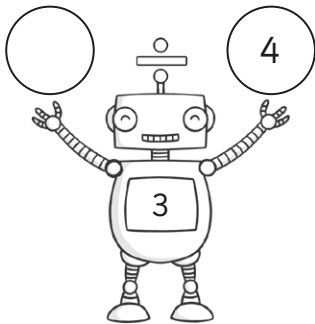
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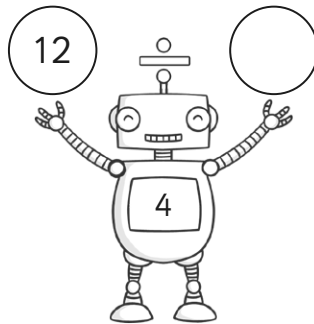
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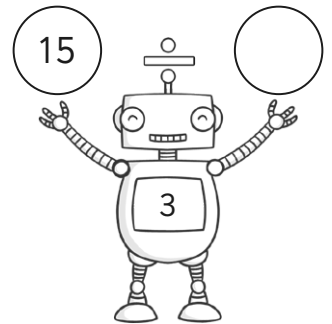
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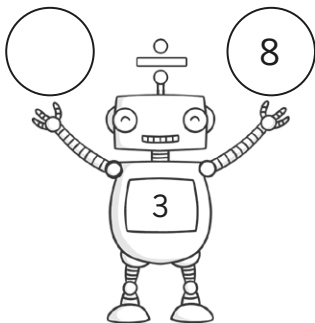
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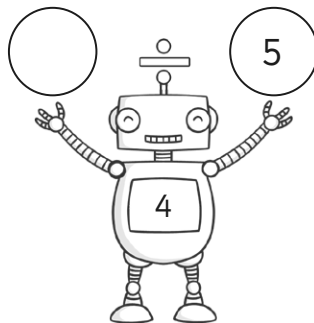
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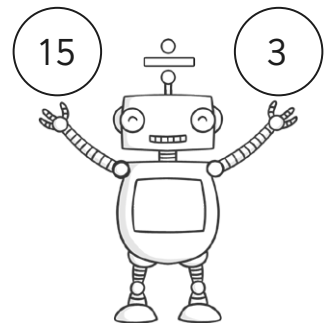
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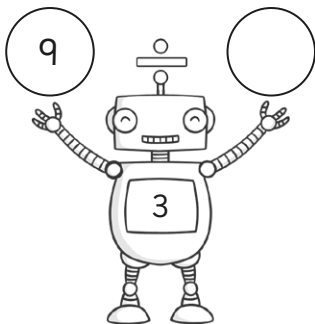
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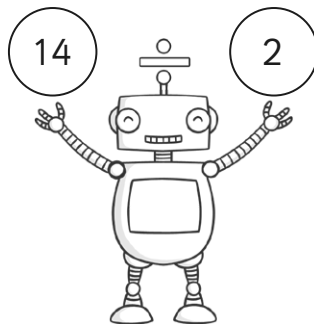
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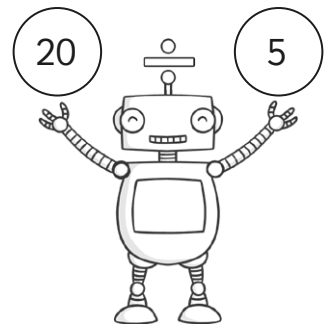
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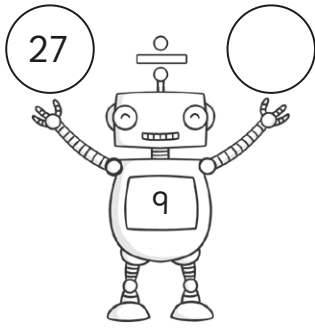
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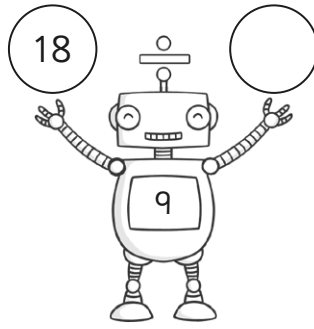
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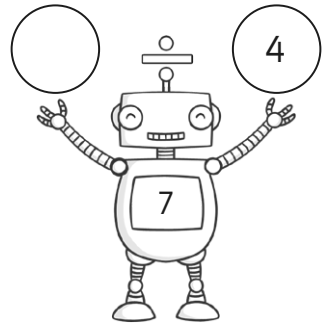
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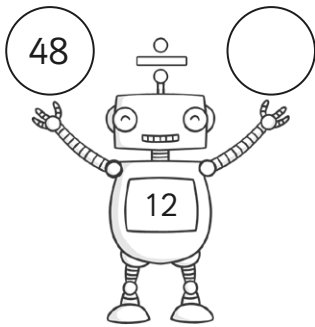
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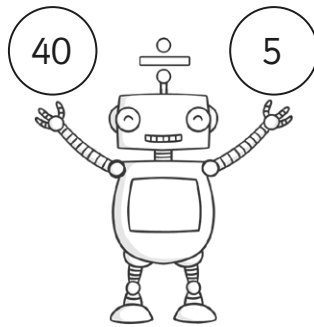
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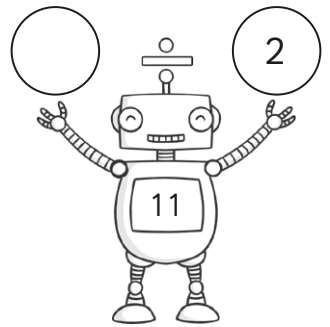
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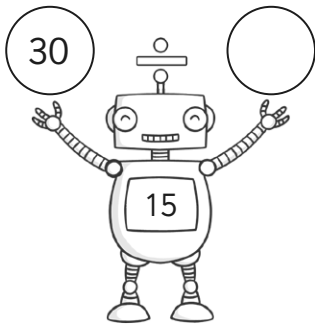
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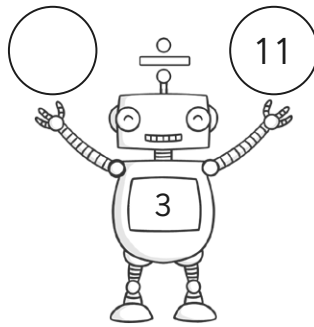
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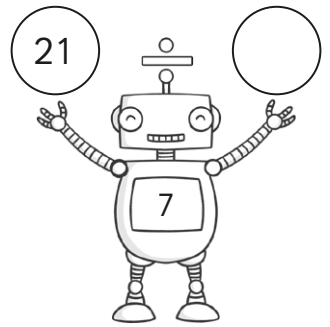
19.



20.



21.



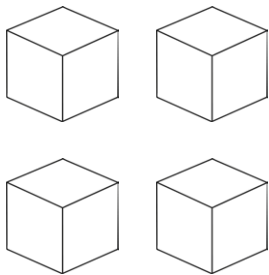
5. There are six eggs in a box – how many boxes are needed to make 48 eggs?



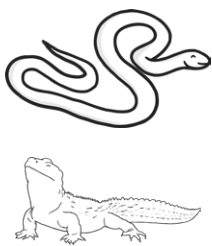
6. Danyal has a 5p coin, a 2p coin and a 1p coin. Dylan has three times as much. How much does Dylan have?



7. Lisa has four cubes. Ned has double the number of cubes that Lisa has. Mina has double the number of cubes that Ned has. How many cubes does everyone have?



8. A lizard is four centimetres long. A snake is nine times as long. How long is the snake?



Colour the Division Equation

Can you colour all the lines of three number squares that make a division equation? The line can be in any order but squares must be beside each other in a column or in a row. Squares can be part of more than one equation.

The example $15 \div 3 = 5$ is shown below.

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