

Output numbers are produced from input numbers by using a certain rule. Work out the rule each time and enter the correct number in the box. A different rule is used for each question.

1	Input	Output	2	Input	Output
	4	→ 10		3	→ 8
	8	→ 14		5	→ 12
	10	→ 16		10	→ 22
	19	→ <input type="text"/>		14	→ <input type="text"/>

3	Input	Output	4	Input	Output
	2	→ 12		32	→ 7
	5	→ 30		28	→ 6
	8	→ 48		20	→ 4
	10	→ <input type="text"/>		8	→ <input type="text"/>

If $26 \times 6 = 156$

5 then $26 = 156 \div$

6 and $26 \times 60 =$

If $27 \times 13 = 351$

7 then $351 \div 27 =$

8 and $\times 13 = 3510$

Put the correct numbers in the squares.

9 $5 \times$ $= 10 \times 12$

10 $17 \times 4 = 34 \times$

11 $8 \times 36 =$ $\times 18$

12 Which multiples of 3 are greater than 1 but less than 10?

Ans _____

13 Which multiples of 8 are greater than 40 but less than 70?

Ans _____

14 List the common multiples of 2 and 5 which are less than 40 but greater than 1.

Ans _____

15 List the common multiples of 4 and 6 which are less than 40 but greater than 20.

Ans _____

Complete the multiplication table.

16

X	7	
3		
8		40
	42	

17

18

19

20

21

List the common factors of each pair of numbers.

22 4 and 10

Ans _____

23 8 and 36

Ans _____

24 6 and 12

Ans _____

Give the highest common factor of each pair.

25 9 and 12

26 10 and 45

27 18 and 36

28 Which factors of 15 are prime numbers?

Ans _____

29 List the prime numbers which are greater than 10 but less than 20.

Ans _____

30 Five numbers, less than 20, are triangular numbers. List them.

1	3			
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31 Take 9 away from 17 and multiply the answer by 9.

Ans _____

32 Multiply 8 by 6 and divide by 12.

Ans _____

33 Divide 100 by 5 and take away 7.

Ans _____

34 Multiply 5 by 7 and add on three times 6.

Ans _____