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

4	→	10
8	→	14
10	→	16
19	→	☐

2 Input → Output

3	→	8
5	→	12
10	→	22
14	→	☐

3 Input → Output

2	→	12
5	→	30
8	→	48
10	→	☐

4 Input → Output

32	→	7
28	→	6
20	→	4
8	→	☐

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 $8 \times 36 =$ ☐ $\times 18$

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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	
17	18	3		
19		8		40
20	21		42	

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			

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