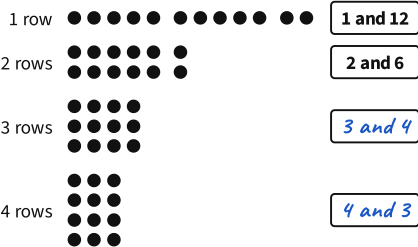


Factors and Multiples with Arrays

ANSWERS

1

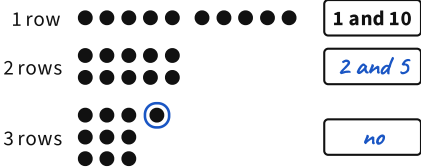
Find the factors of 12. Try 1 row, 2 rows, 3 rows and so on.
None left over: that is a factor pair.



Factors 1, 2, 3, 4, 6, 12

2

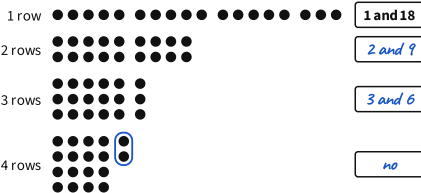
Find the factors of 10. Try 1 row, 2 rows, 3 rows and so on.
None left over: that is a factor pair.



Factors 1, 2, 5, 10

3

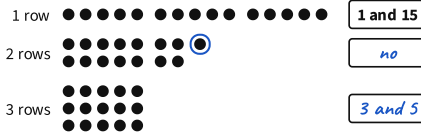
Find the factors of 18. Try 1 row, 2 rows, 3 rows and so on.
None left over: that is a factor pair.



Factors 1, 2, 3, 6, 9, 18

4

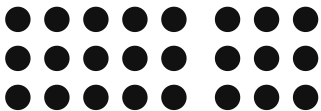
Find the factors of 15. Try 1 row, 2 rows, 3 rows and so on.
None left over: that is a factor pair.



Factors 1, 3, 5, 15

5

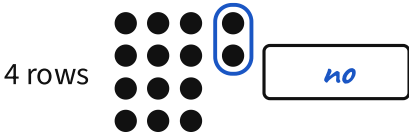
This array shows a factor pair of 24. Write the pair. Then write another factor pair of 24.



Pair 3 and 8
Another 4 and 6 (or 2 and 12)

6

Is 4 a factor of 14? Try the 14 counters in 4 rows.



Answer No: 2 left over

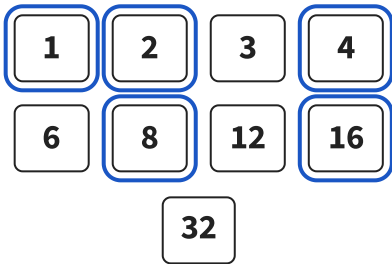
7

A teacher puts 20 chairs in equal rows. Write every way to do it.

1 row of 20, 2 rows of 10,
4 rows of 5 (or turned round)

8

Circle every factor of 16.



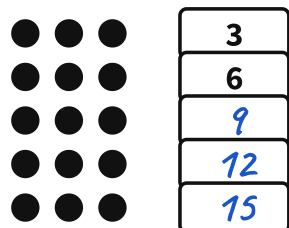
Factors and Multiples with Arrays *further practice*

ANSWERS

9



Write the first 5 multiples of 3.
Add one row at a time. Each total is a multiple.

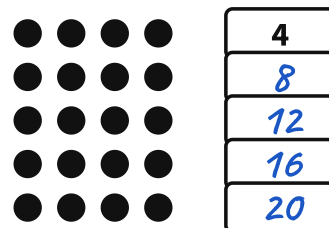


Multiples 3, 6, 9, 12, 15

10



Write the first 5 multiples of 4.
Add one row at a time. Each total is a multiple.

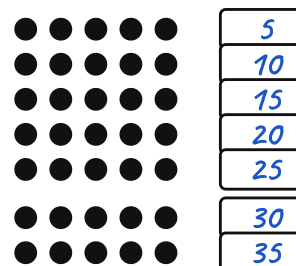


Multiples 4, 8, 12, 16, 20

11



Is 35 a multiple of 5?
Keep adding rows of 5.

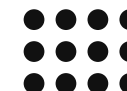


Answer Yes: 7 rows of 5

12



12 counters make 3 rows of 4.
Fill in factor or multiple.



4 is a factor of 12

12 is a multiple of 4

13



Pens come in packs of 6.
Can you buy exactly 40 pens? Explain.

No. 6 times table: 36, 42.

40 is not a multiple of 6.

14



Tables seat 8. Can 56 guests fill whole tables? How many tables?

Answer Yes: 7 tables

15



Rolls come in bags of 3.
Burgers come in packs of 4.
What is the smallest number of each you can buy to match?

Answer 12 of each

16



Sam says 3 is a multiple of 12,
because $12 \div 3 = 4$.
Is Sam right? Explain.



No. 3 is a factor of 12.

12 is a multiple of 3.