THIRD SPACE LEARNING

Factor Pairs Worksheet

Number and Quantity

Grades 4 to 5

Skill Questions

Name: .....

Date: .....

1 Find all the factor pairs for 45.

Answer

2 Find all the factor pairs for 28.

Answer

3 Find all the factor pairs for 22.

Answer

4 Find all the factor pairs for 59.

Answer

5 Find all the factor pairs for 85.

Answer

6 Find all the factor pairs for 90.

Answer

7 Which factor pair for 25 does not belong?

1 x 25

2 x 12

5 x 5

Answer

8 Which factor pair for 100 does not belong?

1 x 50

1 x 100

2 x 50

4 x 25

5 x 20

Answer

9 Which factor pair for 250 does not belong?

1 x 250

2 x 125

3 x 75

5 x 50

10 x 25

Answer

10 Which factor pair for 27 does not belong?

1 x 27

2 x 13

3 x 9

Answer

Applied Questions

11 Fill in the missing factor pairs for 24.

1 x ☐ ☐ x 2

3 x ☐ ☐ x 6

12 A number has 4 factor pairs. Two factor pairs are 3 x 10 and 2 x 15. What are the other two possible factor pairs?

Answer

☐

13 Why is it not possible for 4 x 14 to be a factor pair of 42? Justify your answer.

Answer

☐

14 A number has factor pairs 1 x n, 2 x 12, 3 x 8, and 4 x 6. Would it be possible for n to be 36? Explain.

Answer

☐

15 If a number has the factor pairs 1 x m, 2 x 18, 9 x 4, and 3 x n, explain how you could find m and n.

Answer

Answers

Question number	Question	Answers	Standard
1	Find all the factor pairs for 45.	45 x 1 5 x 9 3 x 15	4.OA.B.4
2	Find all the factor pairs for 28.	28 x 1 14 x 2 7 x 4	4.OA.B.4
3	Find all the factor pairs for 22.	22 x 1 11 x 2	4.OA.B.4
4	Find all the factor pairs for 59.	59 x 1	4.OA.B.4
5	Find all the factor pairs for 85.	85 x 1 5 x 17	4.OA.B.4
6	Find all the factor pairs for 90.	1 x 90 2 x 45 3 x 30 5 x 18 6 x 15 9 x 10	4.OA.B.4
7	Which factor pair for 25 does not belong? 1 x 25 2 x 12 5 x 5	2 x 12 does not belong	4.OA.B.4
8	Which factor pair for 100 does not belong? 1 x 50 1 x 100 2 x 50 4 x 25 5 x 20	1 x 50 does not belong	4.OA.B.4

Factor Pairs Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
9	Which factor pair for 250 does not belong? 1 x 250 2 x 125 3 x 75 5 x 50 10 x 25	3 x 75 does not belong	4.OA.B.4
10	Which factor pair for 27 does not belong? 1 x 27 2 x 13 3 x 9	2 x 13 does not belong	4.OA.B.4
11	Fill in the missing factor pairs for 24. 1 x ___ ___ x 2 3 x ___ ___ x 6	1 x 24 12 x 2 3 x 8 4 x 6	4.OA.B.4
12	A number has 4 factor pairs. Two factor pairs are 3 x 10 and 2 x 15. What are the other two possible factor pairs?	5 x 6 and 1 x 30	4.OA.B.4
13	Why is it not possible for 4 x 14 to be a factor pair of 42? Justify your answer.	4 x 14 does not equal 42.	4.OA.B.4
14	A number has factor pairs 1 x n, 2 x 12, 3 x 8, and 4 x 6. Would it be possible for n to be 36? Explain.	No. When we multiply 2 x 12, 3 x 8 and 4 x 6, we get 24 not 36. Therefore, 1 x n would have to equal 24.	4.OA.B.4

Question number	Question	Answers	Standard
15	If a number has the factor pairs 1 x m, 2 x 18, 9 x 4, and 3 x n, explain how you could find m and n.	We could find m and n by multiplying the other factor pairs to determine the number. We could then use division to find the missing factors. 2 x 18 = 36 1 x m = 36 36 ÷ 1 = 36 m = 36 3 x n = 36 36 ÷ 3 = 9 n = 9	4.OA.B.4

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