

Math 3

1-3 The Meaning of Factors

Name:	Date:	

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1-1 Nets and Drawings for Visualizing Geometry

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CCSS.MATH.CONTENT.3.OA.A.1

Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5×7 .

Common Core Standards

CCSS.MATH.CONTENT.3.OA.A.3

Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

1-3 The Meaning of Factors

Factors

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Identify:

Below is a multiplication equation.

$$7 \times 5 = 35$$

What are the factors?

Answer: 7 and 5

What is their product?

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Answer: 35

Situation 1:

My product is 32. The two factors are directly related to each other. If you multiply the first factor by 2, you will get the other factor. These two factors have a product of 32.

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What do you think are the factors of 32 that apply to the description?



How many factors does 32 have?

Situation 2:

My product is 42. The two factors are consecutive to each other. The two factors

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have a sum of 13. These two factors have a product of 42.

What do you think are the factors of 42 that apply to the description?



How many factors does 42 have?

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Part A: Task Cards

Match the pink card to the blue card by getting the pair of factors that multiply to 36.

1.

a.

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36

2

2.

3

b.

6

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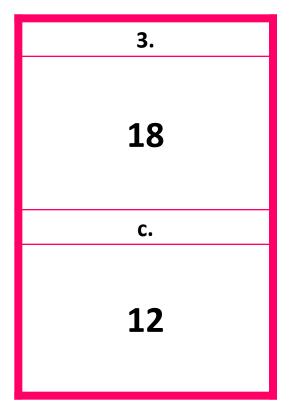




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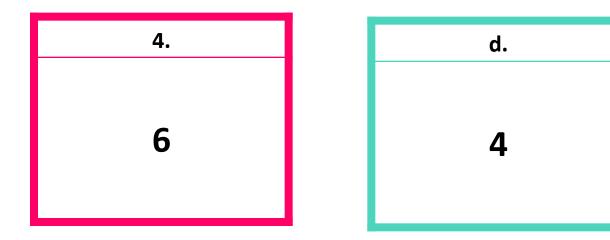


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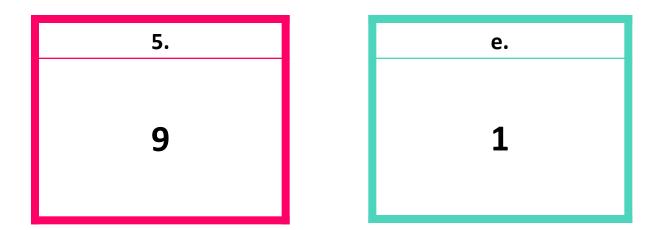


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Part B: List down all the factors of the following products. Afterwards, get the sum of the factors.

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1.50

2.45

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3.24

4. 27

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Part C: Odd Man Out

Cross out the number that is not a factor of the given product.

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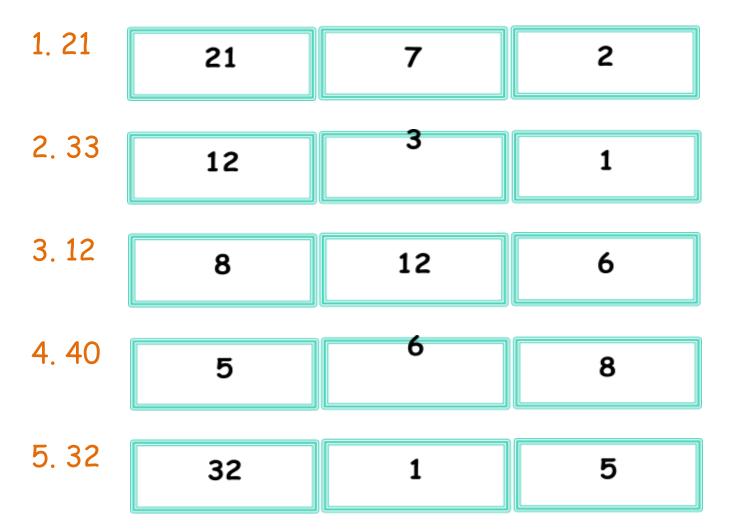
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6.54

13

6

9

ANSWER KEY

Situation 1 4 x 8

6 factors

Situation 2 6 x 7

8 factors

Part A: 1. e.

2. c.

3. a.

4. b.

5. d.

Part B:

1. 1, 2, 5, 10, 25, 50

Sum: 93

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2.	1,	3,	5,	9,	15,	4	5
2.	1,	3,	5,	9,	15,	4	

Sum: 78

3. 1, 2, 3, 4, 6, 8, 12, 24

Sum: 60

4. 1, 3, 9, 27

Sum: 40

Part C:

- 1. 2
- 2. 12
- 3. 8
- 4. 6
- 5. 5
- 6. 13

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