



**THIRD SPACE
LEARNING**

Greatest Common Factor Worksheet

Number and Quantity

Grades 6 to 8

Skill Questions

Name:

Date:

1 What is the greatest common factor of 4 and 6?

Answer

2 What is the greatest common factor of 6 and 9?

Answer

3 What is the greatest common factor of 20 and 12?

Answer

4 What is the greatest common factor of 12 and 18?

Answer

5 What is the greatest common factor of 7 and 49?

Answer

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6 What is the greatest common factor of 37 and 3?

Answer

7 What is the greatest common factor of 10, 20, and 8?

Answer

8 What is the greatest common factor of 48, 32, and 16?

Answer

9 What is the greatest common factor of 5, 10, and 13?

Answer

10 What is the greatest common factor of 45, 70, and 10?

Answer

Applied Questions

- 11** Two planks of wood are 200cm and 240cm in length. Each plank of wood is to be cut into the same length pieces. Calculate the maximum length of each piece.

Answer

- 12** A family is preparing backpacks filled with school supplies to donate to children in need. They have 12 pencils and 30 notebooks. If they want to make all the backpacks the same, with no school supplies left over, what is the greatest number of backpacks they can fill?

Answer

- 13** Malia has two pieces of ribbon, one 20 inches long and the other 36 inches long. To decorate an album, she wants to cut them up to produce many pieces of ribbon that are all of the same length, with no ribbon left over. What is the greatest length, in inches, that she can make them?

Answer

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- 14** Maddie is making fruit baskets. She has 48 apples and 36 oranges. Maddie wants to make all the fruit baskets identical without having any pieces of fruit left over. What is the greatest number of fruit baskets Maddie can make?

Answer

- 15** Jaylen is making trail mix out of 14 bags of nuts and 28 bags of dried fruit. He wants each new portion of trail mix to be identical, containing the same combination of bags of nuts and bags of dried fruit, with no bags left over. What is the greatest number of portions of trail mix Jaylen can make?

Answer

Answers

Question number	Question	Answers	Standard
1	What is the greatest common factor of 4 and 6?	2	6.NS.B4
2	What is the greatest common factor of 6 and 9?	3	6.NS.B4
3	What is the greatest common factor of 20 and 12?	4	6.NS.B4
4	What is the greatest common factor of 12 and 18?	6	6.NS.B4
5	What is the greatest common factor of 7 and 49?	7	6.NS.B4
6	What is the greatest common factor of 37 and 3?	1	6.NS.B4
7	What is the greatest common factor of 10, 20, and 8?	2	6.NS.B4
8	What is the greatest common factor of 48, 32, and 16?	16	6.NS.B4
9	What is the greatest common factor of 5, 10, and 13?	1	6.NS.B4
10	What is the greatest common factor of 45, 70, and 10?	5	6.NS.B4
11	Two planks of wood are 200cm and 240cm in length. Each plank of wood is to be cut into the same length pieces. Calculate the maximum length of each piece.	The maximum length of each piece that allows both planks to be cut into equal lengths is 40cm.	6.NS.B4

Greatest Common Factor Worksheet | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
12	A family is preparing backpacks filled with school supplies to donate to children in need. They have 12 pencils and 30 notebooks. If they want to make all the backpacks the same, with no school supplies left over, what is the greatest number of backpacks they can fill?	The greatest number of backpacks they can fill is 6.	6.NS.B4
13	Malia has two pieces of ribbon, one 20 inches long and the other 36 inches long. To decorate an album, she wants to cut them up to produce many pieces of ribbon that are all of the same length, with no ribbon left over. What is the greatest length, in inches, that she can make them?	The greatest length that Malia can make the ribbons is 4 inches.	6.NS.B4
14	Maddie is making fruit baskets. She has 48 apples and 36 oranges. Maddie wants to make all the fruit baskets identical without having any pieces of fruit left over. What is the greatest number of fruit baskets Maddie can make?	The greatest number of fruit baskets Maddie can make is 12.	6.NS.B4
15	Jaylen is making trail mix out of 14 bags of nuts and 28 bags of dried fruit. He wants each new portion of trail mix to be identical, containing the same combination of bags of nuts and bags of dried fruit, with no bags left over. What is the greatest number of portions of trail mix Jaylen can make?	The greatest number of portions of trail mix Jaylen can make is 14.	6.NS.B4

Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

- ✓ Differentiated instruction for each student
- ✓ Aligned to your state's standard
- ✓ Scaffolded learning to close gaps

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