

Review Exercises

- | | | |
|----------------------------|---------------------------------------|--|
| 1. Change .7 to a percent. | 2. Change $\frac{4}{5}$ to a percent. | 3. Change .12 to a fraction reduced to lowest terms. |
| 4. Find 6% of 200. | 5. Three is what percent of 12? | 6. $5 = 20\%$ of what? |

Helpful Hints	<p>A factor of a whole number is a whole number that divides into it evenly, without a remainder.</p> <p>Examples: Find all factors of 20. $1 \times 20 = 20$ $2 \times 10 = 20$ $4 \times 5 = 20$ All the factors of 20 are: 1, 20, 2, 10, 4, 5</p> <p>Find all factors of 84. $1 \times 84 = 84$ $2 \times 42 = 84$ $3 \times 28 = 84$ $4 \times 21 = 84$ $6 \times 14 = 84$ $7 \times 12 = 84$ All the factors of 84 are: 1, 84, 2, 42, 3, 28, 4, 21, 6, 14, 7, 12</p>
----------------------	---

Find all the factors of each number.					
S1. 30	S2. 36	1. 100	1.		
2. 42	3. 70	4. 81	2.		
5. 50	6. 40	7. 75	3.		
8. 90	9. 20	10. 50	4.		
			5.		
			6.		
			7.		
			8.		
			9.		
			10.		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center; vertical-align: middle; background-color: #e0e0e0;">Problem Solving</td> <td style="padding: 10px;">A test contained 60 questions. If a student's score was 90%, how many questions did he get correct?</td> </tr> </table>			Problem Solving	A test contained 60 questions. If a student's score was 90%, how many questions did he get correct?	Score
Problem Solving	A test contained 60 questions. If a student's score was 90%, how many questions did he get correct?				

Review Exercises

1. $-9 - 6 + -3 =$

2. $-3 \times -2 \cdot 4 =$

3. $\sqrt{121} + \sqrt{81} =$

4. Solve the proportion.

$$\frac{3}{4} = \frac{n}{10}$$

5. $3 = 20\%$ of what?

6. Two is what % of eight?

Helpful Hints	<p>The greatest common factor is the largest factor that two or more numbers have in common.</p> <p>Example: Find the greatest common factor of 12 and 16.</p> <p>Find the factors of each number: 12: 1, 2, 3, 4, 6, 12 16: 1, 2, 4, 8, 16 greatest common factor = 4</p> <p>* "Greatest common factor" is abbreviated as GCF.</p>
----------------------	--

Find the greatest common factor of each pair of numbers.

S1. 8 and 10

S2. 12 and 20

1. 6 and 8

2. 12 and 15

3. 42 and 56

4. 64 and 80

5. 100 and 120

6. 90 and 70

7. 45 and 25

8. 60 and 72

9. 48 and 36

10. 20 and 40

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Problem Solving	<p>Light travels approximately 5.879×10^{12} miles in one year. Write the distance travelled as a conventional number.</p>	Score
------------------------	--	--------------

Review Exercises

- | | | |
|--|--|--|
| 1. Write .0000012 in scientific notation. | 2. Write 496,000,000 in scientific notation. | 3. Write 1.32×10^7 as a conventional number. |
| 4. Write 4.64×10^{-6} as a conventional number. | 5. Find all the factors of 60. | 6. Find the GCF (greatest common factor) of 36 and 40. |

Helpful Hints	<p>A multiple of a number is the product of that number and any whole number.</p> <p>The multiples of a number can be found by multiplying it by 0, 1, 2, 3, 4, and so on.</p> <p>Example: Find the first six multiples of 3. 3: 0, 3, 6, 9, 12, 15</p> <p>These are found by multiplying 3 by 0, 1, 2, 3, 4, and 5.</p>
---------------	--

Complete the list of multiples for each number.

<p>S1. 2: 0, 2, <input type="text"/>, <input type="text"/>, <input type="text"/>, <input type="text"/></p> <p>1. 5: 0, 5, <input type="text"/>, <input type="text"/>, <input type="text"/>, <input type="text"/></p> <p>3. 10: <input type="text"/>, 10, 20, <input type="text"/>, <input type="text"/>, <input type="text"/></p> <p>5. 11: 0, 11, <input type="text"/>, 33, <input type="text"/>, 55</p> <p>7. 20: 0, 20, 40, <input type="text"/>, <input type="text"/>, <input type="text"/></p> <p>9. 30: 0, 30, 60, <input type="text"/>, <input type="text"/>, <input type="text"/></p>	<p>S2. 6: <input type="text"/>, 6, <input type="text"/>, <input type="text"/>, 24, <input type="text"/></p> <p>2. 3: <input type="text"/>, 3, <input type="text"/>, 9, <input type="text"/>, <input type="text"/></p> <p>4. 4: <input type="text"/>, <input type="text"/>, <input type="text"/>, 12, 16, 20</p> <p>6. 8: 0, 8, 16, <input type="text"/>, <input type="text"/>, <input type="text"/></p> <p>8. 7: 0, 7, <input type="text"/>, 21, <input type="text"/>, <input type="text"/></p> <p>10. 9: 0, 9, 18, <input type="text"/>, 36, <input type="text"/></p>	<p>1.</p> <hr/> <p>2.</p> <hr/> <p>3.</p> <hr/> <p>4.</p> <hr/> <p>5.</p> <hr/> <p>6.</p> <hr/> <p>7.</p> <hr/> <p>8.</p> <hr/> <p>9.</p> <hr/> <p>10.</p> <hr/>
---	--	--

Problem Solving	<p>A pitcher threw 30 pitches that were strikes. This was 25% of all the pitches thrown. How many pitches were thrown by the pitcher?</p>	<p>Score</p>
-----------------	---	--------------

Review Exercises

- | | | |
|--------------------------------|-------------------------------|---|
| 1. List all the factors of 30. | 2. Find the GCF of 32 and 60. | 3. List the first six multiples of eight. |
| 4. Find 6% of 50. | 5. 3 is what % of 12? | 6. $7 = 20\%$ of what? |

Helpful Hints	<p>The least common multiple of two or more whole numbers is the smallest whole number, other than zero, that they all divide into evenly.</p> <p>Examples: The least common multiple of: 2 and 3 is 6 4 and 6 is 12 3 and 9 is 9</p> <p>* Least common multiple is abbreviated as LCM.</p>
----------------------	--

Find the least common multiple of each pair of numbers.			1.
S1. 3 and 4	S2. 6 and 8	1. 3 and 5	2.
2. 6 and 10	3. 12 and 20	4. 10 and 15	3.
5. 12 and 18	6. 15 and 60	7. 16 and 12	4.
8. 8 and 20	9. 9 and 12	10. 12 and 30	5.
			6.
			7.
			8.
			9.
			10.

Problem Solving	<p>A CD costs \$12. If the sales tax is 8%, what is the total cost of the CD?</p>	Score
------------------------	---	-------

Reviewing Number Theory

For 1-6, find all factors for each number.

1. 24

2. 16

3. 32

4. 28

5. 70

6. 25

For 7-12, find the greatest common factor for each pair of numbers.

7. 12 and 8

8. 48 and 60

9. 120 and 100

10. 45 and 50

11. 35 and 28

12. 90 and 72

For 13 - 15, complete the list of multiples of each number.

13. 3: 0, 3, 6, , , 14. 9: 0, , 18, , , ,

15. 15: 0, , , , , 75

For 16-20, find the least common multiple of each pair of numbers.

16. 4 and 6

17. 12 and 15

18. 20 and 15

19. 12 and 4

20. 8 and 6

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.