



Factors Identify G.C.F. and L.C.M.

Student Worksheet

1. 14 Find the prime factorization of 60.

F $3^2 \cdot 10$

G $2 \cdot 3 \cdot 10$

H $2 \cdot 2 \cdot 15$

J $2^2 \cdot 3 \cdot 5$

2. Mrs. Sandoval has 60 folders, 45 pairs of scissors, and 30 rulers. What is the greatest common factor Mrs. Sandoval can use to divide the school supplies into equal groups?

A 3

B 5

C 10

D 15

3. What is the greatest common divisor of 54, 36, and 24?

A 2

B 3

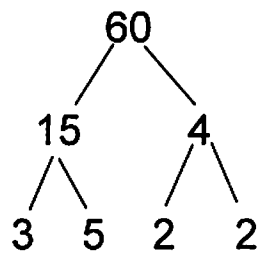
C 6

D 9

Answer Sheet

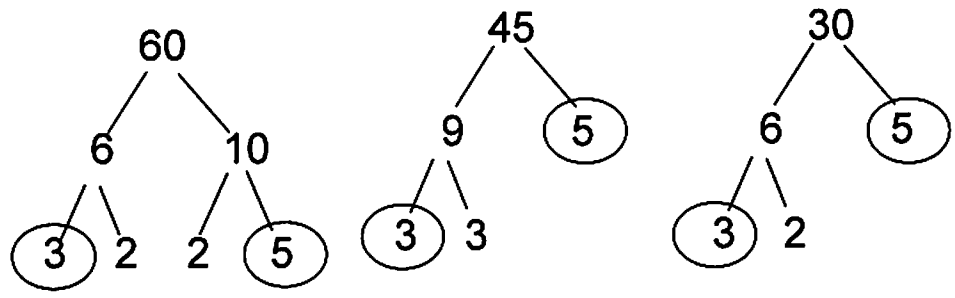
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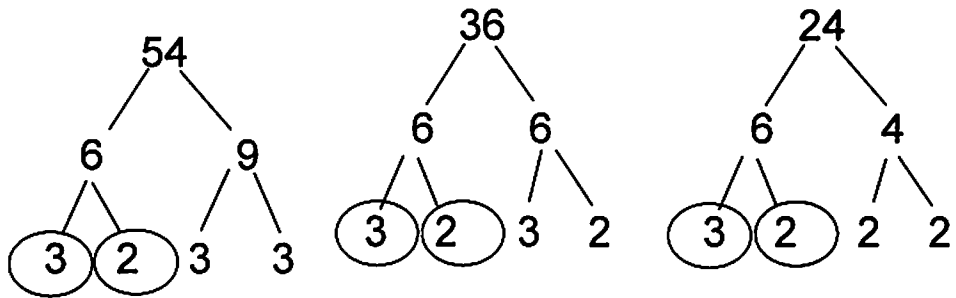
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- B** 3
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Student Worksheet

Greatest Common Factor Worksheets

$9, 6 = \underline{\quad}$

$24, 36 = \underline{\quad}$

$18, 27 = \underline{\quad}$

$50, 30 = \underline{\quad}$

$45, 25 = \underline{\quad}$

$32, 36 = \underline{\quad}$

$4, 12 = \underline{\quad}$

$35, 21 = \underline{\quad}$

$55, 22 = \underline{\quad}$

$99, 33 = \underline{\quad}$

$24, 56 = \underline{\quad}$

$18, 15 = \underline{\quad}$

$24, 16 = \underline{\quad}$

$42, 49 = \underline{\quad}$

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$42, 18 = \underline{\quad}$

$72, 16 = \underline{\quad}$

$84, 48 = \underline{\quad}$

$28, 40 = \underline{\quad}$

$72, 40 = \underline{\quad}$

$40, 15 = \underline{\quad}$

$48, 18 = \underline{\quad}$

$90, 100 = \underline{\quad}$

$80, 90 = \underline{\quad}$

Answer Sheet

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$9, 6 = \boxed{3}$

$24, 36 = \boxed{12}$

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$50, 30 = \boxed{10}$

$45, 25 = \boxed{5}$

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$35, 21 = \boxed{7}$

$55, 22 = \boxed{11}$

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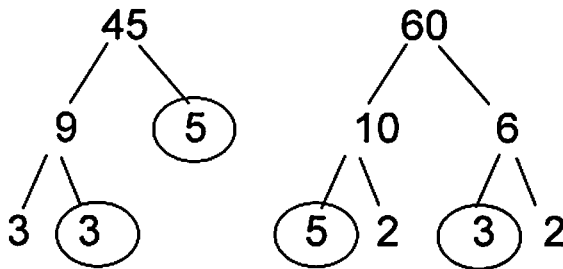
$90, 100 = \boxed{10}$

$80, 90 = \boxed{10}$

Student Worksheet

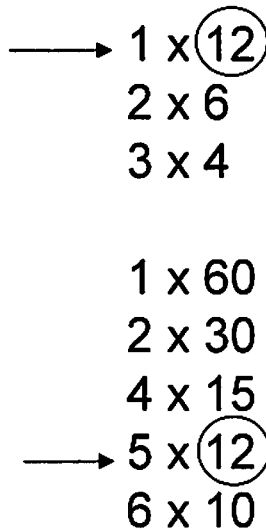
1. What is the greatest common factor of 45 and 60?

- A 3
- B 5
- C 15
- D 30



2. What is $\frac{12}{60}$ expressed in lowest terms?

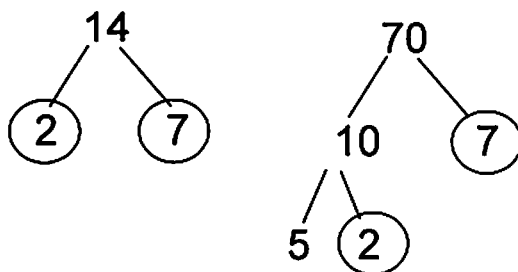
- A $\frac{1}{8}$
- B $\frac{1}{6}$
- C $\frac{1}{5}$
- D $\frac{1}{4}$



3. What greatest common factor should be used to

reduce the fraction $\frac{14}{70}$ to its simplest form?

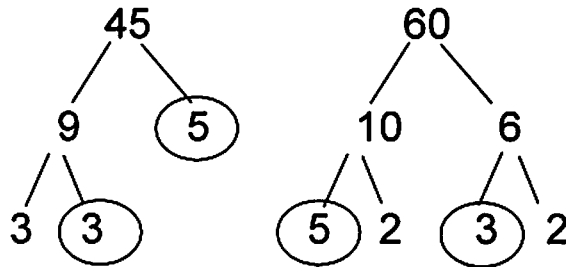
- A 2
- B 7
- C 10
- D 14



Answer Sheet

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- A 3
B 5
 C 15
D 30



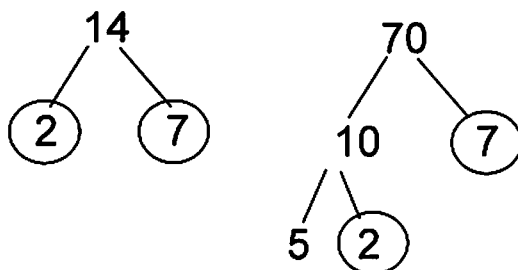
2. What is $\frac{12}{60}$ expressed in lowest terms?

- A $\frac{1}{8}$ \longrightarrow $1 \times \textcircled{12}$
 2×6
 3×4
- B $\frac{1}{6}$ \longrightarrow 1×60
 2×30
 4×15
- C $\frac{1}{5}$ \longrightarrow $5 \times \textcircled{12}$
 6×10
- D $\frac{1}{4}$

3. What greatest common factor should be used to

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C 10
 D 14



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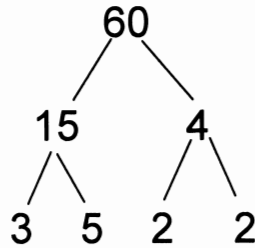
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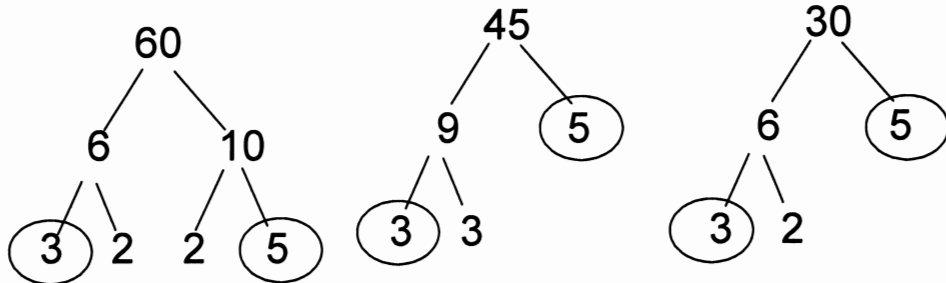
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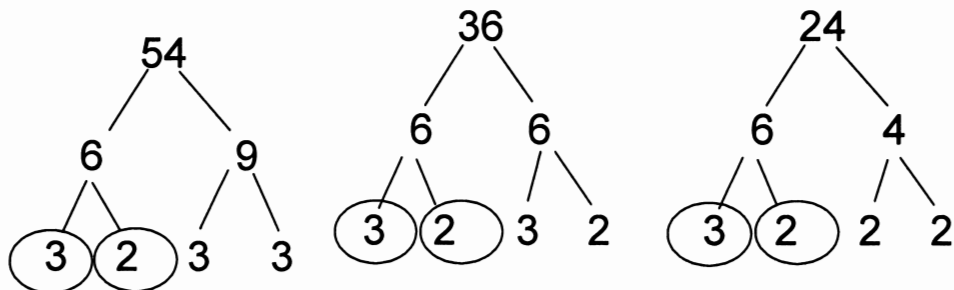
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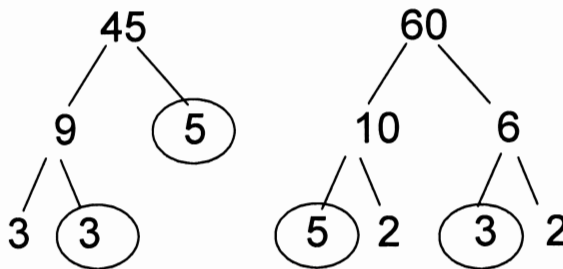
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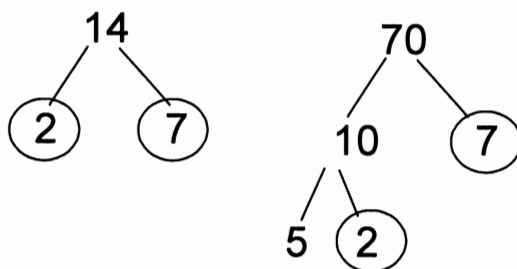
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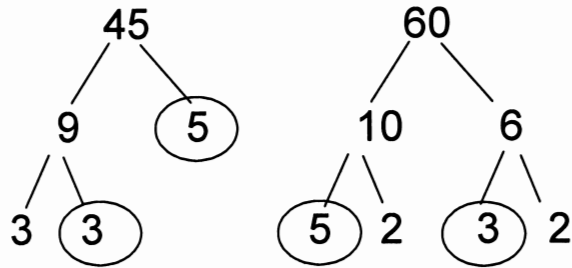
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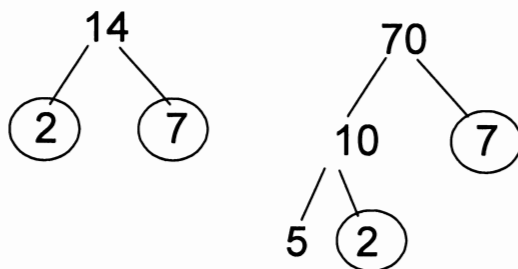
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Least Common Multiple Word Problems

1. Connal is thinking of a secret number. She tells her brother that it is divisible by 19 and tells her friend that it is divisible by 11. If Connal is telling the truth to both of them, what is the smallest secret number that Connal could be thinking of?
 - A. 99
 - B. 209
 - C. 38
 - D. 199

2. Tanner tells his mother that the secret number he is thinking of is divisible by 4 and tells his father that it is divisible by 2. If Tanner is telling the truth to both of his parents, what is the smallest secret number that Tanner could be thinking of?
 - A. 24
 - B. 6
 - C. 2
 - D. 4

3. Packages of cheddar cheese come with 19 slices, while packages of Swiss cheese come with 18 slices. If Jay bought the same number of slices of each type of cheese, what is the smallest number of slices of each type that Jay could have bought?
 - A. 38
 - B. 198
 - C. 162
 - D. 342

4. Tabari plants trees in rows of 15 while his friend, Noor, plants trees in rows of 50. If both friends have the same number of trees to plant, what is the smallest number that each will have to plant?
- A. 150
 - B. 50
 - C. 100
 - D. 300
5. Over the next two days, Pike Employment Agency is interviewing clients who wish to find jobs. On the first day, the agency plans to interview clients in groups of 44. On the second day, the agency will interview clients in groups of 43. If the employment agency will interview the same number of clients on each day, what is the smallest number of clients that could be interviewed each day?
- A. 87
 - B. 176
 - C. 1892
 - D. 2443
6. Clinton's Publishing Incorporated prints 45 textbooks at a time. Boone Associates prints textbooks in sets of 11. According to a report by a publishing industry analyst, both companies printed the same number of textbooks last year. What is the smallest number of textbooks that each company could have printed?

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495

Least Common Multiple

1. What is the least common multiple of **5** and **8**?
2. What is the least common multiple of **4** and **6**?
3. What is the least common multiple of **5** and **10**?
4. What is the least common multiple of **2** and **4**?
5. What is the least common multiple of **9** and **10**?
6. What is the least common multiple of **10** and **3**?
7. What is the least common multiple of **12** and **15**?
8. What is the least common multiple of **20** and **7**?
9. What is the least common multiple of **11**, **39**, **35**, and **8**?
10. What is the least common multiple of **4**, **20**, and **28**?

Least Common Multiple Answers

1. What is the least common multiple of **5** and **8**?

40

2. What is the least common multiple of **4** and **6**?

12

3. What is the least common multiple of **5** and **10**?

10

4. What is the least common multiple of **2** and **4**?

4

5. What is the least common multiple of **9** and **10**?

90

6. What is the least common multiple of **10** and **3**?

30

7. What is the least common multiple of **12** and **15**?

60

8. What is the least common multiple of **20** and **7**?

140

9. What is the least common multiple of **11**, **39**, **35**, and **8**?

120,120

10. What is the least common multiple of **4**, **20**, and **28**?

140