

1. Given the prime factors of each number, find the HCF

a. $X: 2^3 \times 3 \times 5^2$

b. $M: 2^4 \times 3^2 \times 7$

c. $E: 2^3 \times 3^2 \times 5 \times 7$

d. $P: 2^4 \times 3^5 \times 5 \times 7^3$

$Y: 2^3 \times 3$

$N: 2^2 \times 3^2 \times 5$

$F: 2^4 \times 3^2 \times 7$

$Q: 2^2 \times 3^4 \times 5^2 \times 11^2$

2. Find the HCF of each set of numbers

a. 56 and 72

b. 48 and 64

c. 84 and 96

d. 38 and 95

e. 56 and 140

f. 180 and 225

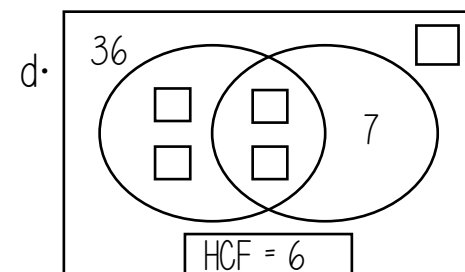
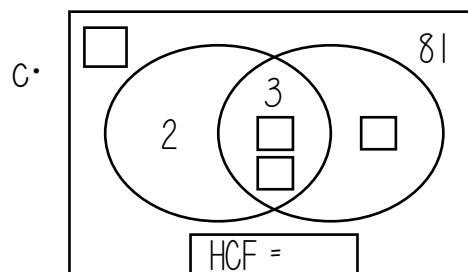
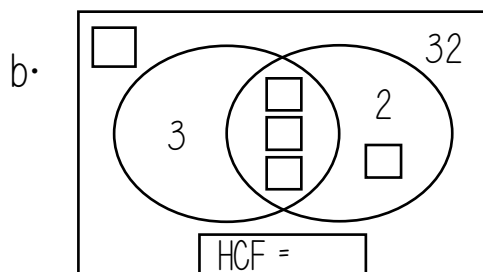
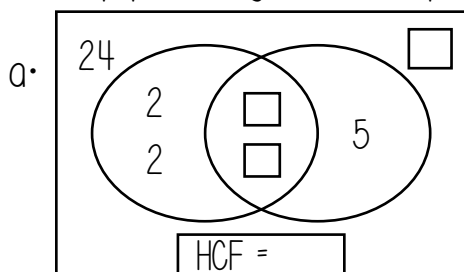
g. 64 and 224

h. 30, 15 and 45

i. 100, 120 and 210

j. 12, 54 and 72

3. Copy the diagrams into your books. Fill in the boxes.



4. Find the HCF of each set of terms

a. $6xy$ and $8x^2$

b. $10ab^2$ and $20a^2$

c. $15e^2f^2$ and $25e^2f$

d. $30s^2tu$ and $10st^2u$

e. $9m(m+n)$ and $15n(m+n)$

f. $9pq(p+q)^2$ and $12q(p+q)$

5. Two numbers, X and Y, have had their prime factors mixed up.

For each set of numbers, work out all the possible values of X and Y, given the HCF

a. Prime Factors: 2, 3, 5, 5, 7
HCF = 5

b. Prime Factors: 2, 2, 3, 5, 5, 11
HCF = 10

c. Prime Factors: 2, 2, 2, 2, 3, 3, 3, 5
HCF = 6

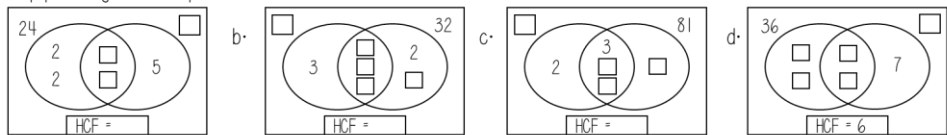
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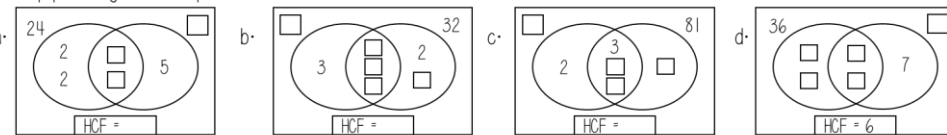
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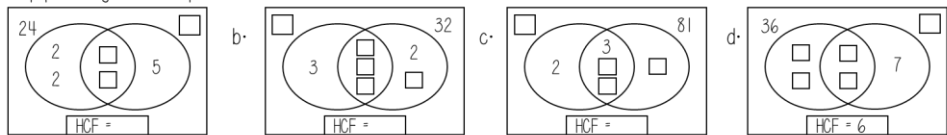
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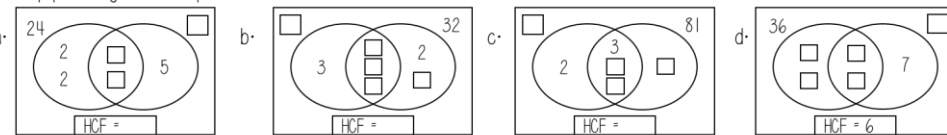
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