Center #1 – Evaluate the expression.

1) $3 \times 6 - 12 \div 6$

2) $20 \times (3^3 - 4) \div 20$

3) $5 + (4^2 + 2) \div 6$

4) $12 + 4\,(16 \div 4)^2$

Center #2 – List the factors for each number.

1) 28

2) 44

3) 63

Center #3 – Write the prime factorization of the number.

1) 42

2) 450

3) 1680

Center #4 – Find the lowest common multiple.

1) 4 and 14

2) 18 and 27

Center #5 – Find the greatest common factor.

1) 30 and 48

2) 56 and 96

Center #6 – Solve. When possible, write the answer in simplest form.

1) $272 \div 16$

2) $\frac{5}{9} + \frac{3}{8}$

3) $3\frac{5}{6} - 2\frac{7}{15}$

Math 6 centers HW p48 #1-15 all, 17-23 odd, 24, 25

Center #1 – Evaluate the expression.

1) $3 \times 6 - 12 \div 6$

$18 - 2 = 16$

2) $20 \times (3^3 - 4) \div 20$

$20 \times (27 - 4) \div 20$

$20 \times 23 \div 20$

$460 \div 20 = 23$

3) $5 + (4^2 + 2) \div 6$

$5 + (16 + 2) \div 6$

$5 + 18 \div 6$

$5 + 3 = 8$

4) $12 + 4\,(16 \div 4)^2$

$12 + 4(4)^2$

$12 + 4(16)$

$12 + 64 = 76$

Center #2 – List the factors for each number.

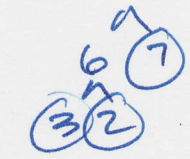
1) 28 → 1, 2, 4, 7, 14, 28

2) 44 → 1, 2, 4, 11, 22, 44

3) 63 → 1, 3, 7, 9, 21, 63

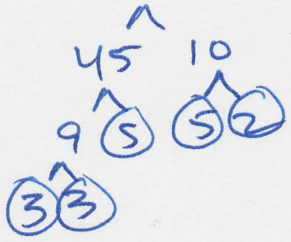
Center #3 – Write the prime factorization of the number.

1) 42



$2 \cdot 3 \cdot 7$

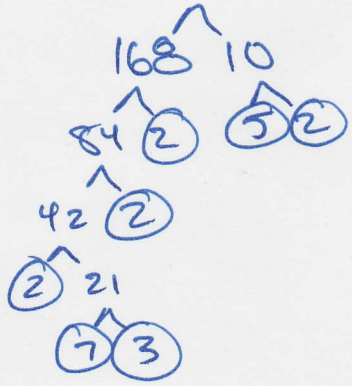
2) 450



$2 \cdot 3 \cdot 3 \cdot 5 \cdot 5$

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

3) 1680



$2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 \cdot 7$

$2^4 \cdot 3 \cdot 5 \cdot 7$

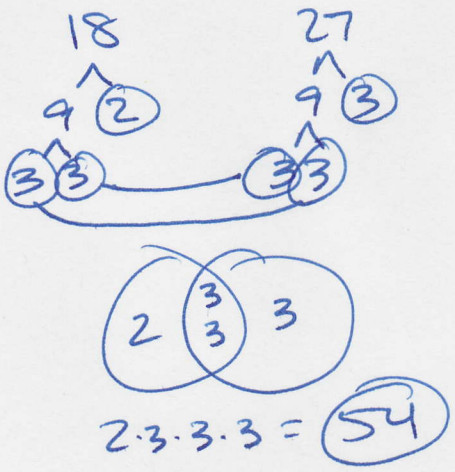
Center #4 – Find the lowest common multiple.

1) 4 and 14

4 → 4, 8, 12, 16, 20, 24, 28

14 → 14, 28

2) 18 and 27



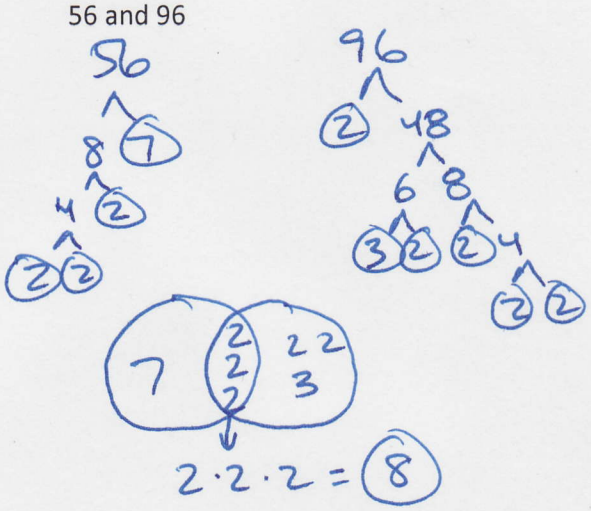
Center #5 – Find the greatest common factor.

1) 30 and 48

30 → 1, 2, 3, 5, 6, 10, 15, 30

48 → 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

2) 56 and 96



Center #6 – Solve. When possible, write the answer in simplest form.

1) $272 \div 16$

$$16\overline{)272}\quad 17,\ -16,\ 112,\ -112,\ 0$$

2) $\frac{5}{9}+\frac{3}{8}$

$$\frac{40}{72}+\frac{27}{72}=\frac{67}{72}$$

3) $3\frac{5}{6}-2\frac{7}{15}$

$$3\frac{25}{30}-2\frac{14}{30}=1\frac{11}{30}$$