Basic Number #6 (Extension)

1. Circle the multiple(s) of 6: 101 102 103 104 105 106 107 108

2. What is the lowest common multiple of 25 and 15? .....

3. Circle the numbers listed that are factors of 6: 1 2 3 4 5 6 7 8

4. What is the highest common factor of 1600 and 1250? .....

5. List the prime factors of 420: .....

6. Write 0.5 as a fraction (whole numbers top and bottom): .....

7. Write 0.004 as a fraction (whole numbers top and bottom): .....

8. Write (3 ÷ 100) + (6 ÷ 10000) as a decimal: .....

9. Complete the following: 300.017 = (3 × .....) + (1 × .....) + (7 × .....)

Round the following to 3 decimal places:

10. 1.70999 .....

11. 45.230499 .....

12. 0.0003666 .....

Put in order from smallest to largest:.

13. 0.09, 0.017, 0.2

14. $^{10}/_{3}$, $^{16}/_{5}$, 3

15. $\bar{}0.06$, $\bar{}0.9$, $\bar{}0.12$

Calculate and write as a decimal:

16. $\left(\frac{2+7}{4}\right)^2$ = ...

17. $\frac{16}{(3+5)^2}$ = ...

Put one or more sets of brackets into the equations so that they become true:

18. 3 × 4 + 1 × 2 = 30

19. 16 + 4 ÷ 5 + 5 = 2

20. 2 + 5 × 1 + 2^2 = 63

Answers: Basic Number #6 (Extension)

1. Circle the multiple(s) of 6: 101 **(102)** 103 104 105 106 107 **(108)**

2. What is the lowest common multiple of 25 and 15? **75**

3. Circle the numbers listed that are factors of 6: **(1)** **(2)** **(3)** 4 5 **(6)** 7 8

4. What is the highest common factor of 1600 and 1250? **50**

5. List the prime factors of 420: **2, 2, 3, 5, 7** (because 2 × 2 × 3 × 5 × 7 = 420)

6. Write 0.5 as a fraction (whole numbers top and bottom): $\frac{5}{10}$ or simplified to $\mathbf{\frac{1}{2}}$

7. Write 0.004 as a fraction (whole numbers top and bottom): $\frac{4}{1000}$ or simplified to $\mathbf{\frac{1}{250}}$

8. Write (3 ÷ 100) + (6 ÷ 10000) as a decimal: **0.0306**

9. Complete the following: 300.017 = (3 × **100**) + (1 × $\mathbf{\frac{1}{100}}$) + (7 × $\mathbf{\frac{1}{1000}}$)

10. 1.70999 → **1.710** (must have the zero)

11. 45.230499 → **45.230** (must have the zero)

12. 0.0003666 → **0.000** (must have all the zeros)

13. **0.017 < 0.09 < 0.2** (to the same decimal places: 0.017 < 0.090 < 0.200)

14. **3 < $^{16}/_{5}$ < $^{10}/_{3}$** (as decimals: 3 < 3.2 < 3.333)

15. **$^{-}$0.9 < $^{-}$0.12 < $^{-}$0.06** (0.06 < 0.12 < 0.90 and negatives are in reverse)

16. $\left(\frac{2+7}{4}\right)^2$ = $(2.25)^2$ = **5.0625**

17. $\frac{16}{(3+5)^2}$ = $\frac{16}{8^2}$ = $\frac{16}{64}$ = **0.25** (BEDMAS)

18. 3 × **(** 4 + 1 **)** × 2 = 30

19. **(** 16 + 4 **)** ÷ **(** 5 + 5 **)** = 2

20. **(** 2 + 5 **)** × **(** 1 + 2 **)** ^{2} = 63