NUMBER ANALOGY ANSWERS

1. 0.75 is to ¾ as 0.8 is to \_\_\_\_\_\_\_\_\_

1. 2/3 2. 4/5 3. 5/6 4. 6/7 5. 3/5

*Solution 1: Comparison*

If you convert 0.75 into fraction form:

therefore the ratio 0.75 is to ¾ or is equal to one. Since the first ratio is equal (0.75=3/4), you only need to find the fraction form that would equal to 0.80:

*Solution 2: Ratio and Proportion Convention*

0.75 is to ¾ as 0.8 is to X, (X is unknown).

0.75: = 0.8:X

Convert 0.75 and 0.8 to fraction form. (Review Fractions: 0.1 = , 0.01 = )

=

1. 75% is to 1/2 as 45% is to \_\_\_\_\_\_\_\_

1. 3/11 2. 3/10 3. 3/4 4. 2/3 5. 3/5

*Solution: Ratio and Proportion Convention*

75% is to ½ as 45% is to X, (X is unknown).

75%: = 45%:X

Convert 75% and 80% to fraction form. (Review: Percentage is a way of expressing a number as a fraction of 100 (per cent meaning "per hundred" in Latin) 75% = 75/100, 80% = 80/100 like any number with a % sign like 0.01% = .01/100 and 2000% = 2000/100

=

1. 0.25 is to 0.125 as to 1.25 is to \_\_\_\_\_\_\_\_

1. 0.625 2. 1.125 3. 1.625 4. 2.125 5. 6.250

*Try Solving This:*

Solution 1: By Comparison

Solution 2: By Ratio and Proportion Convention

1. 2 is to 50 as 3.2 is to \_\_\_\_\_\_\_\_\_

1. 60 2. 70 3. 80 4. 90 5. 160

*Try Solving This by Ratio and Proportion Convention*

1. 14 is to 28 as 5 is to \_\_\_\_\_\_\_\_\_

1. 7 2. 8 3. 9 4. 10 5. 15

1. 1 is to 1/4 as 5/25 is to \_\_\_\_\_\_\_\_

1. 1/16 2. 1/18 3. 2/6 4. 3/4 5. 1/20

1. 0.35 is to 7 as 0.45 is to \_\_\_\_\_\_\_\_

1. 8 2. 9 3. 12 4. 14 5. 0.9

1. 1/3 is to 2/18 as 1/12 is to \_\_\_\_\_\_\_\_

1. 2/72 2. 2/48 3. 3/36 4. 3/25 5. 1/72

1. 3/8 is to 12/32 as 2/5 is to \_\_\_\_\_\_\_\_

1. 8/20 2. 10/23 3. 6/13 4. 4/6 5. 5/6

1. 1/3 is to 3/7 as 1/6 is to \_\_\_\_\_\_\_\_

1. 3/14 2. 1/5 3. 1/4 4. 1/3 5. ½

1. 0.4 is to 2/5 as 0.6 is to \_\_\_\_\_\_\_\_

1. 20 2. 4/5 3. 3/10 4. 3/5 5. 1/5

1. 0.2 is to 0.4 as 0.3 is to \_\_\_\_\_\_\_\_

1. 0.009 2. 0.0009 3. 0.09 4. 0.9 5. 9.0

1. 8 is to 23  as 27 is to \_\_\_\_\_\_\_\_

1. 33 2. 53 3. 93 4. 39 5. 43

1. 0.5 is to 1/2 as 0.65 is to \_\_\_\_\_\_\_\_

1. 11/20 2. 13/20 3. 15/20 4. 17/20 5. 14/20

1. 1/3 is to 3 as 2/8 is to \_\_\_\_\_\_\_\_

1. 2 2. 4 3. 6 4. 8 5. 10

1. 30% is to 3/5 as 80% is to \_\_\_\_\_\_\_\_

1. 1 1/5 2. 1 2/5 3. 1 3/5 4. 1 4/5 5. 2

1. 0.30 is to 0.075 as 0.15 is to \_\_\_\_\_\_

1. 0.000375 2. 0.00375 3. 0.0375 4. 0.375 5. none

1. 2/5 is to 20% as ¾ is to \_\_\_\_\_\_\_\_

1. 35.5% 2. 37.0% 3. 37.5% 4. 39.0% 5. 36.5%

1. 625 is to 81 as 5 is to \_\_\_\_\_\_\_\_

1. 3 2. 4 3. 6 4. 9 5. 0.648

*Note: Solution is by comparison. The ratio here is exponential:* 54:34*, after knowing this the answer is obvious. It is 3. Review special numbers like the squares of number. My first analysis here is that it is* 252 and 92 *and I know that* 25 *and* 9 *are* 52 *and* 32 *which made me arrive to the same answer* 3.

1. 8 is to 11 as 36 is to \_\_\_\_\_\_\_\_

1. 49.50 2. 55.00 3. 59.50 4. 65.00 5. 69.50

1. 2 is to 2.5 as 4 is to \_\_\_\_\_\_\_\_

1. 3 2. 5 3. 7 4. 9 5. 6

1. 2 is to 8 as 4 is to \_\_\_\_\_\_\_\_

1. 18 2. 32 3. 36 4. 66 5. none