

NTS GAT General Past Papers Questions

Quantitative – Exam No. 09

Conversions and Numbers

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Length conversions:

$$1 \text{ mile} = 1.609 \text{ kilometers}$$

$$1 \text{ kilometer} = 1000 \text{ meters (PP)}$$

$$1 \text{ meter} = 10 \text{ decimeters}$$

$$1 \text{ decimeter} = 10 \text{ centimeters (PP)}$$

$$1 \text{ centimeter} = 10 \text{ millimeters}$$

$$1 \text{ yard} = 3 \text{ feet (PP)}$$

$$1 \text{ feet} = 30.48 \text{ cm}$$

$$1 \text{ mile} = 5,280 \text{ feet (PP)}$$

Speed conversions:

$$1 \text{ mile per hour} = 1.609 \text{ kilometer per hour}$$

$$1 \text{ kilometer per hour} = \frac{5}{18} \text{ meter per second (PP)}$$

$$1 \text{ meter per second} = \frac{18}{5} \text{ kilometer per hour (PP)}$$

$$1 \text{ kilometer per hour} = \frac{50}{3} \text{ meter per minute}$$

$$1 \text{ meter per minute} = \frac{3}{50} \text{ kilometer per hour (PP)}$$

Angle conversions:

$$1 \text{ radian} = 57.3 \text{ degrees}$$

$$1 \text{ hour} = 60 \text{ minutes (PP)}$$

$$1 \text{ day} = 86,400 \text{ seconds}$$

Volume conversions:

One cubic foot = 1728 cubic inches (PP)

One cubic meter = 1,000,000 cubic centimeters

Numbers

1. Set of natural numbers:

$$N = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, \dots\}$$

2. Set of whole numbers:

$$W = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, \dots\}$$

3. Set of even numbers: (PP)

$$E = \{2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, \dots\}$$

4. Set of odd numbers: (PP)

$$O = \{1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, \dots\}$$

5. Set of prime numbers: (PP)

$$P = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, \dots\}$$

6. Set of composite numbers:

$$C = \{1, 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, \dots\}$$

7. Set of integers:

$$Z = \{0, \pm 1, \pm 2, \pm 3, \pm 4, \pm 5, \pm 6, \pm 7, \pm 8, \pm 9, \pm 10, \dots\}$$

8. Set of positive integers: (PP)

$$Z^+ = \{+1, +2, +3, +4, +5, +6, +7, +8, +9, +10, \dots\}$$

9. Set of negative integers:

$$Z^- = \{-1, -2, -3, -4, -5, -6, -7, -8, -9, -10, \dots\}$$