

BASIC ARITHMETIC and BASIC ALGEBRA SAMPLE

You have up to 1 hour to complete this assessment.

Name: _____

PART A - Addition and Subtraction

1. Add: $39,437 + 127,648 + 7,056$ 1. _____

2. Subtract: 19,820 from 209,327 2. _____

3. Subtract: $87,654 - 32,109$ 3. _____

4. Divide: $46,428 \div 6$ 4. _____

5. Divide: $87,654 \div 3$ 5. _____

PART B - Fractions

1. Add: $\frac{7}{8} + \frac{1}{4}$ 1. _____

2. Reduce to lowest terms: $\frac{42}{54}$ 2. _____

3. Find the sum: $\frac{9}{14} + \frac{9}{13} + \frac{9}{15}$

4. Subtract: $\frac{1}{6} - \frac{1}{3}$ 5. _____

6. Subtract: $\frac{3}{4} - \frac{1}{2}$ 6. _____

7. Divide: $\frac{7}{24} \div \frac{21}{8}$ 7. _____

PART C - Decimals

1. Add: $0.75 + 0.25$ 1. _____

2. Write $\frac{5}{8}$ as a decimal. 2. _____

PART D -W CE v š

1. Express $8\frac{1}{2}\%$ as a decimal numeral: _____

2. Express $\frac{18}{25}$ as a per cent: _____

3. A store had a sale of 15%. If the original price of a shirt was \$20, how much did the customer pay for the shirt? _____

4. _____

5. _____

6. _____

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PART A

PART B

PART C

PART D

1. 174,141

2. 189,507

3. 1,655,928

4. 53

5. 74,900

1. $\frac{7}{8} = \frac{42}{48}$

2. $\frac{7}{9}$

3. $\frac{9}{13}$

4. $\frac{31}{36}$

5. $\frac{17}{24}$

6. $\frac{9}{9}$

7. $\frac{1}{9}$

1. $\frac{3}{4}$

2. .625

3. 7432.05

4. 703.159

5. 80.46

6. .1689

7. 1.37

1. $\frac{21}{25}$

2. .085

3. 72%

4. 30%

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$$\frac{\wedge / > ' Z \wedge DW > \sim \hat{i} \hat{n} \langle \mu \cdot \ddot{Y} \rangle v \bullet \bullet}{}$$

PART A - •] } v % š •

Z}} • š Z o © Œ } (š Z } Œ Œ š v • Á Œ v % o] š] v š Z o v | • % š š Z Œ

1. {0,1,2,3,4,.....} is called the set of:

a) natural numbers • Œ] š Z u Ÿ v μ u Œ •

PART C $\frac{1}{3}x + \frac{1}{5}x = 8$

1. $5x + 2 = 17$ 2. $4x + 3(x + 2) = 20$ 3. $\frac{1}{3}x + \frac{1}{5}x = 8$ 4. $6x - 4 = 2x + 12$ 5. $\frac{x}{3} = \frac{12}{18}$

1. _____

2. _____

3. _____

4. _____

5. _____

PART D $x^2 - 5 = 10$

1. A man is $x^2 - 5 = 10$

a) $x^2 - 5 = 10$ b) $5 - 2x = 10$

c) $2x - 5 = 10$ d) $5 - x^2 = 10$

2. A man is $x^3 + x = 52$

a) $x^3 + x = 52$ b) $x + x + 3 = 52$

c) $x + 3x = 52$ d) $3(x + x) = 52$

3. A man is $x + .02x = 70$

a) $x + .02x = 70$ b) $x + .2x = 70$

c) $x + 20x = 70$ d) $x + 20 = 70$

4. A man is $x + 3x = 34$

a) $x + 3x = 34$ b) $x + x + 3 = 34$

c) $x + x + 3 = 17$ d) $2x + 2x + 3 = 34$

5. A man is $x + 2x + 3x = 105$

a) $x + 2x + 3x = 105$ b) $3x = 105$

c) $x + x + 1 + x + 2 = 105$ d) $x + 3 = 105$

Answer key for Basic Algebra