

BASIC ARITHMETIC and BASIC ALGEBRA SAMPLE

You have up to 1 hour to complete this assessment.

PART A

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

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

3. _____

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

PART B

1. _____

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

3. Find the LCM of $\frac{9}{14}, \frac{9}{13}, \frac{9}{15}$

5. _____

6. _____

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

PART C

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

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1. $5x + 2 = 17$

1. _____

2. $4x + 3(x + 2) = 20$

2. _____

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

3. _____

4. $6x - 4 = 2x + 12$

4. _____

5. $\frac{x}{3} = \frac{12}{18}$

5. _____

PART D

íX dÁ] vμu œ]• •μ šœ š (œ}u ñ v šZ œ •μoš]• íX W] l šZ }œœ š

a) $x^2 - 5 = 10$

b) $5 - 2x = 10$

c) $2x - 5 = 10$

d) $5 - x^2 = 10$

2. A man is šZœ Ÿu • • }o • Z]• μPZš œX dZ •μu }(šZ]œ P •]• ñîX W] l

a) $x^3 + x = 52$

b) $x + x + 3 = 52$

c) $x + 3x = 52$

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

íX /(vμu œ]•]v œ • Ç îî9 šZ œ •μoš]• óîX W] l šZ }œœ š <μ Ÿ}v

a) $x + .02x = 70$

b) $x + .2x = 70$

c) $x + 20x = 70$

d) $x + 20 = 70$

ðX dZ %œ]u š œ }(%] šμœ (œ u]• ïð]v Z •X W] l šZ }œœ š <μ Ÿ}v
o vPšZ }(šZ (œ u]• ï]v Z • u}œ šZ v šZ Á] šZX

a) $x + 3x = 34$

b) $x + x + 3 = 34$

c) $x + x + 3 = 17$

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

ñX dZ •μu }(šZœ }v• μŸÀ]vš P œ•]• îîñX W] l šZ }œœ š <μ Ÿ}v š}

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

b) $3x = 105$

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

d) $x + 3 = 105$

Answer key for Basic Algebra