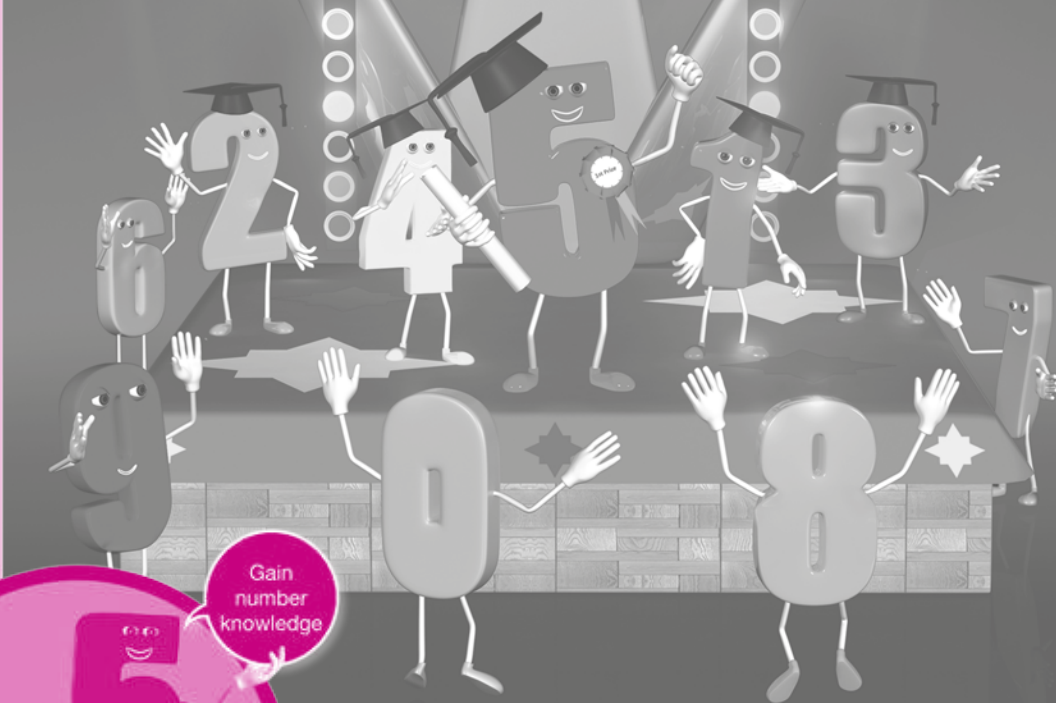


TALKING NUMBERS

MATHEMATICS BOOK 5

ANSWER KEY

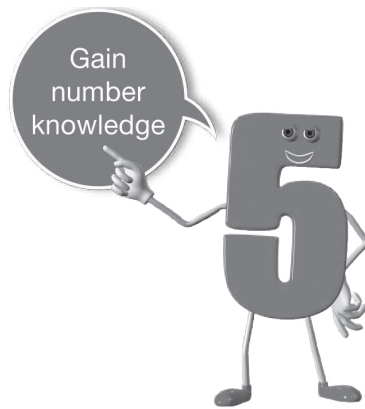


Gain
number
knowledge

TALKING NUMBERS

MATHEMATICS BOOK 5

Answer Book



Developed by: Ayesha Farooq



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first edition 2014
Printed 2014

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ISBN 978-969-9705-49-6

Edited by: Fidem Editorial Team

Published by
fidem education network
D-69/1, Block-9, Scheme 5, Clifton, Karachi-75600, Pakistan
Printed at
Yaqeen Art Press (Private) Limited
Plot 150, Sector 23, Korangi Industrial Area, Karachi-74900, Karachi, Pakistan.

Q1. For the numbers given below, insert the commas and write down the number names in "international number system".

Page no. 7

Answers:

- a 345,129 b 1,120,983 c 48,434,320
 d 1,100,111 e 7,788,442

Q2. Write down the given numbers in digits, inserting accurate periods.

Answers:

- a 5,36,233 b 8,00,08,000 c 19,20,900
 d 1,10,10,100 e 50,00,550 f 47,07,996

Q3. Write down the place value of the green digit in each of the following numbers.

Answers:

- a 500 b 90,000 c 1,000,000
 d 90,000 e 4,00,000 f 100,000
 g 6,00,00,000 h 50,00,000 i 6.00,000

Q1. In each of the blanks given below, write $>$, $<$ or $=$ to make a correct sentence.

Page no. 9

Answers:

- a $>$ b $=$ c $<$ d $>$ e $<$

Q2. Arrange the numbers in ascending order.

Answers:

- a 1,050,102 1,525,201 2,515,002 5,220,110
 b 7,44,7788 8,34,788 8,43,788 8,44,788
 c 6,054,116 6,405,161 6,500,661 6,504,616
 d 90,99,000 99,00,900 99,90,000 99,99,999
 e 11,777,777 17,771,771 71,771,77 77,117,117

Q1. Make even and odd numbers.

Page no. 10

Answers:

- a 765,120 765,102 751,026 756,120
 b 120,567 102,657 230,157 120,657

Q1. Round off the numbers given below:

Page no. 11

Answers:

- a 5,680 5,700 6,000 b 4,000 4,000 4,000 c 9,960 10,000 10,000

Q1. The exact number of people visiting hospitals in different cities in a year was recorded. Approximate figures are needed to order medicine supplies for the next year.

Page no. 12

Answers:

- a 900,000 900,000 1,000,000
 b 900,000 1,000,000 1,000,000
 c 1,570,000 1,600,000 2,000,000
 d 2,120,000 2,100,000 2,000,000
 e 700,000 700,000 1,000,000

Q1. Using the table given above check the divisibility of the following numbers by 2, 4, 6 and 8.

Page no. 13

Answers:

- a Yes, yes, yes, yes b No, no, no, no c Yes, yes, yes, no
 d Yes, yes, yes, yes e Yes, yes, no, yes

Q1. List the prime numbers less than 100 by using the table given below:

Page no. 14

Answers:

7	9	11	13	17	19
23	29	31	37	41	43
47	53	59	61	67	71
73	79	83	89	97	

Q2. Put a tick with the numbers, which are completely divisible by 10 and 11.

Answers:

- a Yes b Yes c No d No e No f Yes

Q1. Fill in the blanks with correct numbers.

Answers:

- | | | | |
|----------------------------|-----------------------------|-----------------------------|-------------------------------|
| <input type="radio"/> a 49 | <input type="radio"/> b 100 | <input type="radio"/> c 125 | <input type="radio"/> d 1,000 |
| <input type="radio"/> e 81 | <input type="radio"/> f 144 | <input type="radio"/> g 512 | <input type="radio"/> h 1,331 |

Page no. 15

Q1. With each of the following expressions write if it is positive or negative.

Answers:

- | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <input type="radio"/> a Positive | <input type="radio"/> b Negative | <input type="radio"/> c Positive | <input type="radio"/> d Negative |
| <input type="radio"/> e Negative | <input type="radio"/> f Positive | <input type="radio"/> g Negative | |

Page no. 17

Q1. Write down the missing numbers on the number lines.

Answers:

- | | | | | | | |
|-------------------------|-----|----|----|----|----|----|
| <input type="radio"/> a | -2 | 0 | +3 | | | |
| <input type="radio"/> b | -5 | +1 | | | | |
| <input type="radio"/> c | -4 | +2 | +6 | | | |
| <input type="radio"/> d | -1 | 0 | +3 | +4 | | |
| <input type="radio"/> e | -10 | -9 | -8 | -7 | -5 | -4 |

Page no. 18

Q Insert > or < in the boxes given to make a correct statement.

Answers:

- | | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <input type="radio"/> a < | <input type="radio"/> b > | <input type="radio"/> c > | <input type="radio"/> d > | <input type="radio"/> e < |
| <input type="radio"/> f > | <input type="radio"/> g < | <input type="radio"/> h < | <input type="radio"/> i < | |

Page no. 19

Q2. Arrange the following groups of numbers in ascending order:

Answers:

- | | |
|---|---|
| <input type="radio"/> a -12, -6, 0, +1, +6, +12 | <input type="radio"/> b -20, -11, -2, -1, +2, +10 |
|---|---|

Q1. Solve the following:

Answers:

- a 1,111,110 b 8,449,786 c 3,106,098 d 35,889,219
e 24,561,112 f 18,888,887

Q2. Fill in the blanks by adding 1 to each of the following numbers:

Answers:

- a 789,600 b 211,010 c 1,000,001 d 29,889,000
e 9,101,102 f 100,000,000

Q3. Fill in the blanks by subtracting 1 from each of the following numbers:

Answers:

- a 665,329 b 432,439 c 1,999,998 d 54,333,299
e 40,110,109 f 9,999,999

Q4. Write down the missing number to make a correct sentence:

Answers:

- a 600 b 650,000 c 20,000,000 d 1,005,000
e 10,000 f 1,000,000 g 11,000,001 h 1,100,000

Q5. Fill in the missing digits.

Answers:

- a 4 b 6 c 5 d 3 e 0
f 4 g 3, 7 h 3, 0 i 2, 2

Q6. Write the given questions in vertical form and find the answers

Page no. 23

Answers:

- | | | | | | | | |
|---|-----------|---|------------|---|------------|---|-------------|
| a | 396,347 | b | 106,005 | c | 768,344 | d | 1,343,387 |
| e | 738,311 | f | 349,989 | g | 11,437,000 | h | 102,441,106 |
| i | 7,543,931 | j | 99,034,966 | | | | |

Q1. Find the estimated answers for the questions given:

Page no. 25

Answers:

- | | | | | | | | |
|---|-----------|---|---------|---|-----------|---|-----------|
| a | 19,000 | b | 297,000 | c | 21,700 | d | 1,410,000 |
| e | 78,000 | f | 2,000 | g | 1,442,000 | h | 1,587,000 |
| i | 1,215,000 | j | 213,000 | | | | |

Q2. Read and solve.

Answers:

- 4,850,000
- 52,200,000
- 423,000
- Rio de Janeiro, Dhaka, Karachi, Shanghai, New York City, Tokyo
- 103,000,000

Multiplication & division

Q1. Find the product by place value partitioning method.

Page no. 27

Answers:

- a 192 b 392 c 384 d 455 e 423

Q2. Find the quotient and remainder, (if any) by place value partitioning method.

Page no. 28

Answers:

- a 32 4 b 54 0 c 39 3 d 34 2 e 62 0

Q3. Solve the following by using any method.

Page no. 29

Answers:

- a 2106 b 26 c 14339 d 84 11
e 7436 f 61 5 g 45232 h 93 10
i 41472 j 288 k 208728 l 77 10
m 1368450 n 6082 o 2727720 p 1124 36

Q1. Find the product of each of the following parts.

Page no. 30

Answers:

- a 534,135 b 2,509,248 c 22,498,463
d 1,683,072 e 15,847,650 f 109,446,399
g 3,605,706 h 44,713,375 i 5,189,605

Q1. Find the quotient and the remainder for each of the following parts.

Page no. 31

Answers:

- a 62 80 b 105 92 c 4213 30
d 62 0 e 139 90 f 303 34
g 52 0 h 126 375 i 1056 300

Q1. Round off the numbers given below to friendly numbers:

Page no. 33

Answers:

- a 500 b 88,000 c 900 d 53,000 e 1,700 f 697,000

Q2. Fill in the blanks with rounded off numbers to find the estimated answers.

Page no. 34-35

Answers:

- a 8,700,000 b 6 c 2,200,000 d 90
e 10,200,000 f 150 g 9,900,000 h 70

Q3. Read and solve to give estimated answers.

Answers:

- a 450 b 13,440 c 14,400 d 400 400,000
e 1,200,000 f 2125

Q1. List all the factors of the numbers given below

Page no. 38

Answers:

- | | |
|---|--|
| b 1, 2, 11, 22 | c 1, 2, 3, 4, 6, 8, 12, 24 |
| d 1, 2, 4, 8, 12, 16, 32, 64 | e 1, 5, 7, 35 |
| f 1, 2, 3, 4, 6, 9, 12, 18, 36 | g 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72 |
| h 1, 19 | i 1, 2, 5, 10, 50 |
| j 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96 | |

Q2. List 1st 8 multiples of the numbers given below by making use of multiplication facts.

Page no. 39

Answers:

- | | | | | | | | |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| a 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| b 18 | 36 | 54 | 72 | 90 | 108 | 126 | 144 |
| c 42 | 84 | 126 | 168 | 210 | 252 | 294 | 336 |
| d 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 |
| e 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 |
| f 54 | 108 | 162 | 216 | 270 | 324 | 378 | 432 |
| g 13 | 26 | 39 | 52 | 65 | 78 | 91 | 104 |
| h 35 | 70 | 105 | 140 | 175 | 210 | 245 | 280 |
| i 72 | 144 | 216 | 288 | 360 | 432 | 504 | 576 |

Q1. Find the prime factors by drawing the factor trees for the numbers given below:

Page no. 41

Answers:

- | | | | | |
|----------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|
| a 2^4 | b $2^2 \times 3^2$ | c 2×5^2 | d $2^2 \times 3 \times 11$ | e $2 \times 3 \times 43$ |
| f 5^2 | g $2^2 \times 11$ | h 5×23 | i 2×73 | j $2^3 \times 47$ |

Q2. Express the product of the prime factors in index notation by drawing factor table for the following numbers:

Answers:

- | | | | | |
|-------------------------|---------------------------|--------------------------------|--------------------------|----------------------------------|
| a 2×3^2 | b $2^4 \times 3$ | c $2^2 \times 5^2$ | d $2^2 \times 31$ | e 2×5^3 |
| f 2^5 | g $2^3 \times 3^2$ | h $3 \times 5 \times 7$ | i $2^3 \times 17$ | j $3 \times 5^2 \times 7$ |

Q1. Find the HCF and LCM of the given numbers by listing factors and multiples.

Page no. 43-44

Answers:

a 4 24

b 3 84

c 2 24

d 1 72

e 3 45

f 4 80

g 1 84

h 5 60

Q1. Fill in the factor tree diagrams to find the HCF and LCM of the given pairs of numbers:

Answers:

a 8 48

b 6 72

c 10 60

Q1. Find the HCF and LCM of given numbers by making factor tables.

Page no. 46

Answers:

a 10 60

b 8 48

c 4 120

d 5 300

e 7 84

f 4 160

g 2 180

Q1. Find the HCF and LCM of given numbers by making factor tables.

Page no. 47

Answers:

a 5 100

b 3 90

c 7 42

d 6 36

e 1 77

Q2. Read and solve.

Answers:

a 6 cakes

b 3 yellow chairs, 4 red chairs

c 4 packs of sandwiches and 3 packs of juices

d 30 minutes

e 24 years

Q1. With each of the statement given below write down the property applied.

Page no. 50

Answers:

- a Commutative b Associative c Commutative d Associative
 e Associative f Associative

Q1. Use the distributive property of multiplication to fill in the missing numbers and solve.

Page no. 51

Answers:

- a 180 b 240 c 160 d 340 e 530 f 6

Q2. Solve the following by applying distributive property:

Answers:

- a 396 b 318 c 232 d 231 e 1236 f 2664
 g 345 h 1164 i 675

Q1. Following the rule for order of operations, solve the questions given below:

Page no. 53

Answers:

- a 10 b 57 c 11 d 9 e 16 f 1
 g 46 h 8 i 14.3 j 15.5 k 9.9 l 1.6
 m $1 \frac{1}{7}$ n $2 \frac{17}{36}$ o $\frac{6}{12}$ or $\frac{1}{2}$ p $1 \frac{17}{21}$

Q1. Solve the sentences given below, remember the order!

Page no. 55

Answers:

- a 22 b 142 c 90 d 37 e 2
 f 52 g -15 h 48 i 1 j 7.2
 k 9 l 2.29 m $\frac{7}{20}$
 n $\frac{3}{4}$ * for part k. Read 32 as 3.2

Q2. Read and solve.

Answers:

- a 49 b 41.6 c $\frac{4}{5} + \frac{3}{4}$ d 6.2 e $\frac{5}{18}$ f 2.51

Q1. Write down the fraction or a mixed number for each of the figures given below.

Page no. 57

Answers:

a $2 \frac{3}{4}$ b $5 \frac{1}{2}$ c $3 \frac{2}{3}$ d $3 \frac{1}{4}$ e 5 f $4 \frac{4}{5}$

Q2. Write the following improper fractions as mixed numbers.

Answers:

a $6 \frac{3}{5}$ b $5 \frac{1}{3}$ c $4 \frac{1}{12}$ d $3 \frac{6}{7}$ e $5 \frac{3}{10}$
 f $8 \frac{1}{4}$ g $7 \frac{1}{8}$ h $5 \frac{5}{11}$ i $2 \frac{1}{13}$ j $9 \frac{1}{9}$

Q3. Convert the following mixed numbers into improper fractions.

Answers:

a $\frac{13}{4}$ b $\frac{32}{5}$ c $\frac{52}{7}$ d $\frac{100}{11}$ e $\frac{38}{3}$
 f $\frac{31}{8}$ g $\frac{58}{5}$ h $\frac{76}{9}$ i $\frac{37}{15}$ j $\frac{109}{10}$

Q4. Identify the equivalent fractions.

Page no. 58

Answers:

a $\frac{8}{12}$ $\frac{6}{9}$ $\frac{20}{30}$ b $\frac{12}{14}$ $\frac{30}{35}$
 c $\frac{16}{36}$ $\frac{20}{45}$ d $\frac{4}{5}$ $\frac{16}{20}$ $\frac{32}{40}$
 e $\frac{20}{32}$ $\frac{25}{40}$ $\frac{40}{64}$ f $\frac{18}{20}$ $\frac{45}{50}$
 g $\frac{1}{2}$ $\frac{18}{36}$ $\frac{2}{4}$ $\frac{30}{60}$

Q5. Rewrite each fraction in its simplest form.

Answers:

a $\frac{1}{3}$ b $\frac{2}{5}$ c $\frac{3}{7}$ d $\frac{3}{4}$ e $\frac{2}{3}$
 f $\frac{1}{3}$ g $\frac{2}{5}$ h $\frac{1}{7}$ i $\frac{2}{3}$ j $\frac{1}{3}$
 k $\frac{3}{5}$ l $\frac{1}{3}$ m $\frac{1}{4}$ n $\frac{1}{2}$ o $\frac{1}{3}$

Q6. Write down the reciprocal for each of the fractions or numbers given.

Answers:

a $\frac{3}{2}$ b $\frac{7}{4}$ c $\frac{5}{1}$ d $\frac{10}{1}$ e $\frac{1}{2}$
 f $\frac{2}{11}$ g $\frac{1}{6}$ h $\frac{1}{9}$ i $\frac{9}{1}$ j $\frac{1}{100}$

Q7. Add or subtract the fractions given below to find the answers in simplest form.

Page no. 59

Answers:

- a $7/9$ b $1 \frac{2}{7}$ c $3/9$ or $1/3$ d 2
 e $11/12$ f $5/14$ g $1 \frac{7}{20}$ h $5/9$

Q8. Add or subtract the following mixed numbers.

Answers:

- a $6 \frac{3}{5}$ b $4 \frac{2}{5}$ c $3 \frac{1}{3}$ d 6 e 2
 f $5 \frac{1}{3}$ g 1 h $3/7$ i 7

Q1. Add or subtract the following mixed numbers:

Page no. 61

Answers:

- a $6 \frac{5}{6}$ b $7 \frac{1}{2}$ c $8 \frac{1}{14}$ d $1/12$
 e $10 \frac{13}{15}$ f $2 \frac{11}{20}$ g $5/6$ h $8 \frac{11}{18}$
 i $1 \frac{1}{28}$ j $2 \frac{1}{10}$ k $12 \frac{3}{10}$ l $11 \frac{1}{6}$

Q2. Simplify:

Answers:

- a $3/4$ b $1/6$ c $3/4$ d $3 \frac{7}{12}$ e $3 \frac{11}{15}$ f $7/12$

Q3. Read and solve.

Page no. 62

Answers:

- a $5/8$ litres b $5 \frac{3}{10}$ cm c $14 \frac{7}{12}$ km
 d $6 \frac{29}{40}$ cups, $5 \frac{11}{40}$ cups left e $9 \frac{1}{4}$ m

Q1. Complete the sentences by filling in the missing numbers after simplifying:

Page no. 64

Answers:

- a 5 b 35 c $5/6$ d $7, 2$ e $1/3$

Q2. Multiply and give the answers in simplest form.

Page no. 64

Answers:

- a $12/7$ b $8/21$ c $5/2$ d $3/4$ e $24/5$
 f $15/22$ g $49/9$ h $25/28$ i $5/22$ j $28/39$

Q1. Complete the sentences by filling in the missing numbers.

Page no. 66

Answers:

- a $20/1$ b $21/10$ c $1/20$ d $1/6$ e $1/4$

Q2. Divide and give the answers in simplest form.

Page no. 67

Answers:

- a 21 b $6/7$ c $2/9$ d $2/3$ e 1
 f $9/4$ g $1/36$ h $25/28$ i $55/72$ j 26

Q1. Solve the following:

Answers:

- a 6 b $1/17$ c 4 d $1 \frac{1}{14}$ e 6
 f $1 \frac{1}{3}$ g 6 h $1/18$ i $1 \frac{8}{27}$

Q1. Read, draw models and solve.

Page no. 69, 70

Answers:

- a Rs 120 b 14 c 8 d $1/2, 1/2$ left
 e $1/12, 2$ f 5, 50 g $3/20, 1/4$ kg h 60 days
 i 50 j $2/11, \text{Rs. } 220$

Q1. Solve the following and give the answer in simplest form:

Page no. 73

Answers:

- a $1 \frac{5}{12}$ b $1 \frac{1}{15}$ c $4/7$ d $4 \frac{4}{5}$ e $3/16$
 f $5/32$ g $3/4$ h $1 \frac{2}{3}$ i $4 \frac{1}{2}$

Q1. Write the decimal and fraction for each of the figures given below:

Page no. 75

Answers:

- a 0.2 $\frac{2}{10}$ b 0.9 $\frac{9}{10}$ c 0.3 $\frac{3}{10}$ d 0.35 $\frac{35}{100}$
 e 0.77 $\frac{77}{100}$ f 3.80 $\frac{380}{100}$ g 3.50 $\frac{350}{100}$

Q1. Match the decimal number with correct fraction by colouring with same colour

Page no. 76

Answers:

- a 0.9 b 0.009 c 0.909 d 0.09 e 1.09 f 1.009

Q2. Write down the place value of the coloured digit in each of the numbers given below:

Page no. 77

Answers:

- a Tenths b Hundredths c unit d thousand e thousandths
 f tens g hundredths h hundredths i tenths

Q3. Complete the table given below.

Answers:

- a 0.007 0.008 b $\frac{2}{10}$ 0.3 c $\frac{11}{1000}$ 0.011
 d 3.4 3.5 e 100 $\frac{18}{10}$ 100.18
 f $\frac{777}{1000}$ 7.778 g 0.469 0.470 h 9.09 9.10

Q1. Convert the following fractions into decimal numbers with the help of equivalent fractions.

Page no. 78

Answers:

- a 0.5 b 0.25 c 2.6 d 0.28 e 0.22
 f 1.65 g 2.48 h 0.104 i 4.485 j 0.158

Q2. Convert the following decimals into fractions and reduce the fractions to their simplest form.

Answers:

- a $\frac{4}{5}$ b $\frac{6}{25}$ c $\frac{23}{200}$ d $\frac{1}{500}$
 e $1\frac{3}{5}$ f $3\frac{1}{20}$ g $6\frac{3}{5}$ h $\frac{147}{250}$

Q1. Write the correct symbol " $>$, $<$ or $=$ " in each box.

Page no. 79

Answers:

a $<$ b $>$ c $>$ d $<$ e $<$ f $=$

Q2. Write down each set of the numbers in ascending order.

Answers:

a	2.3	2 $\frac{4}{10}$	3.2	3 $\frac{1}{2}$
b	1.2	1 $\frac{1}{4}$	1.3	1 $\frac{2}{5}$
c	$\frac{3}{4}$	0.77	0.79	$\frac{4}{5}$
d	2.05	2.25	2 $\frac{3}{5}$	2 $\frac{3}{4}$
e	1.58	1 $\frac{17}{20}$	2.59	2 $\frac{9}{10}$
f	$\frac{0}{20}$	$\frac{11}{50}$	0.45	$\frac{16}{25}$

Q1. Write down the numbers in vertical form to add or subtract the numbers:

Page no. 80

Answers:

a	1713.54	b	45.886	c	116.05	d	301.93
e	111.935	f	372.55	g	735.102	h	226.493

Q1. Complete the following tables:

Page no. 82

Answers:

a	75	401.5	1752.5	5000.05	b	36	20.02	7.44
	150	803	3505	10000.1		18	10.01	3.72
	750	4015	17525	50000.5		3.6	2.002	0.744
	1500	8030	35050	100001		1.8	1.01	0.372
	7500	40150	175250	500005		0.36	0.2002	0.0744
	15000	80300	350500	1000010				

Q1. Solve the multiplication and division questions given below:

Page no. 84

Answers:

a	10686.75	b	61068.28	c	45904.88	d	26.74
e	1184.5	f	98.2	g	25605.34	h	1144.25
i	97373.633	j	30.47	k	231.25	l	69.8

Q1. Complete the table by filling in the products:

Page no. 85

Answers:

a	0.02	0.03	0.04	0.05	0.06	0.07	0.08
b	0.06	0.12	0.18	0.36	0.42	0.48	
c	0.09	0.18	0.27	0.36	0.45	0.54	0.63

Q2. Find the products of the following questions:

Answers:

a	96.345	b	275.85	c	679.4	d	289.971	e	8.0478
f	1015.1406	g	616.462	h	49.9408	i	465.2648		

Q1. Fill in the blanks by dividing the given decimal numbers:

Page no. 86

Answers:

a	3	b	3	c	60	d	4	e	2	f	61
---	---	---	---	---	----	---	---	---	---	---	----

Q1. Divide the following:

Page no. 87

Answers:

a	38.4	b	5.07	c	69.5	d	0.32	e	9600
f	45.63	g	2900	h	0.249	i	125		

Q2. Read and solve.

Page no. 88

Answers:

a	4.595 kg	b	68.195 m	c	1.71 litres	d	13.95 km
e	78 bags	f	Faraz, 29300 cm or 293 cm	g	\$20.65		
h	£150.96	i	3.35 litres, 55 glasses	j	Rs. 200.75		

Q1. Round off the following decimals to the nearest whole number.

Page no. 91

Answers:

a	1	b	20	c	75	d	1	e	23	f	101
g	2	h	50	i	200	j	14	k	50	l	1000

Q2. Fill in the table given below by rounding off the decimal numbers.

Page no. 92

Answers:

- | | | | | | | | | |
|---|--------|---------|---|-------|--------|---|--------|---------|
| a | 1.1 | 1.12 | b | 15.6 | 15.55 | c | 77.1 | 77.09 |
| d | 100.5 | 100.50 | e | 190.0 | 190.00 | f | 1865.7 | 1865.65 |
| g | 1999.9 | 1999.88 | | | | | | |

Q1. Complete the table given by solving the decimal numbers with indices:

Page no. 93

Answers:

- | | | | | | | | |
|---|------|---|----------|---|-------|---|--------|
| a | 0.04 | b | 0.008 | c | 1.21 | d | 0.0009 |
| e | 5.76 | f | 1.367631 | g | 31.36 | | |

Q2. Simplify these:

Answers:

- | | | | | | | | | | |
|---|-------|---|--------|---|------|---|------|---|--------|
| a | 1.954 | b | 40.385 | c | 48.9 | d | 8.55 | e | 76.965 |
| f | 555 | g | 59.55 | h | 720 | i | 1.75 | j | 4.327 |

* for part 'd'. Read 9.03 as 59.03

* for part 'g'. Read 50 as 150

Q1. For the numbers given below, insert the commas and write down the number names in "international number system".

Page no. 94, 95

Answers:

- a 34,526,789
Thirty four million, five hundred and twenty six thousand seven hundred and eighty nine
- b 5,901,238
Five million, nine hundred and one thousand, two hundred and thirty eight
- c 1,236,790,150
One billion, two hundred and thirty six million, seven hundred and ninety thousand, one hundred and fifty
- d 778,321,460
Seven hundred and seventy eight million, three hundred and twenty one thousand, four hundred and sixty
- e 345,012
Three hundred and forty five thousand and twelve
- f 989,154,760
Nine hundred and eighty nine million, one hundred and fifty four thousand, seven hundred and sixty

Q2. For the numbers given below, insert the commas and write down the number names in "South Asian number system".

Answers:

- a 5,56,00,124
5 crore, fifty six lakh, one hundred and twenty four
- b 1,09,08,70,150
1 arab, 9 crore, 8 lakh, seventy thousand, one hundred and fifty
- c 6,91,04,501
Sixty crore, ninety one lakh, four thousand, five hundred and one
- d 78,05,411
Seventy eight lakh, five thousand, four hundred and eleven
- e 4,33,01,276
Four crore, thirty three lakh, one thousand, two hundred and seventy six
- f 50,18,49,201
Fifty crore, eighteen lakh, forty nine thousand, two hundred and one

Q3. For each of the following numbers find the divisors (between 1 and 10) and then put a tick on the correct answer.

Answers:

- a 1, 3 b 1, 2 c 1,2,4,8 d 1, 3, 7, 9
 e 1, 3, 7 f 1, 2, 4, 8 g 1, 2, 3, 4, 6

Q4. Make 5-digit numbers by using these digits: 2, 4,6,7,8.

Answers:

- a 86,427 b 24,687 c 46,287 d 86,472
 e 86427 f 46872 g 2688

Q5. Round the following numbers to the accuracy of the underlined digit. Also write the place value of the underlined digit.

Page no. 96

Answers:

- | | | | | | |
|---|---------|------------|---|-----------|-------------|
| a | 6,000 | 50,727,00 | b | 40,000 | 68,350,000 |
| c | 0 | 29,424,610 | d | 50,00,000 | 8,57,00,000 |
| e | 500,000 | 40,500,000 | f | 10,000 | 59,810,000 |
| g | 80,000 | 31,589,000 | h | 70,00,000 | 470,00,000 |
| i | 9 | | j | 0 | 9,70,00,000 |
| k | 100 | 72,02,100 | l | 20,000 | 9,91,26,000 |

Q6. Answer these questions.

Answers:

- a 7 5 13 19 23 37
 b 14 8 4 9 10 21 12 27 15 75 25 24 64 16 20 15
 c 1 2 d 4 3 25 16 64 e 8 27

Q7. Round off the following numbers to the nearest million.

Page no. 97

Answers:

- a 9,000,000 b 5,000,000 c 2,000,000
 d 1,000,000 e 1,000,000

Q8. Solve the following:

Answers:

- a 8,924,090 b 3,106,098 c 8,449,787
 d 15,354,158 e 23,896,525 e 15,050,746

Q9. Write down the missing number to make a correct sentence.

Answers:

- | | | | | | |
|---|-----------|---|-----------|---|-----------|
| a | 860,234 | b | 69,789 | c | 2,737,345 |
| d | 8,248,223 | e | 2,556,613 | e | 430,104 |

Q10. Keeping in mind the order of operations, solve the following questions:

Page no. 98

Answers:

- | | | | | | |
|---|-----------|-----------|---|-----------|-----------|
| a | 9,000 | 9,211 | b | 62,000 | 61,518 |
| c | 1,000 | 988 | d | 1,700,000 | 1,685,821 |
| e | 2,900,000 | 2,937,677 | f | 420,000 | 50,000 |
| g | 2400 | 1300 | h | \$50,000 | |
| i | 5,000 km | | | | |

Q11. Find the product for each of the following parts:

Page no. 99,100

Answers:

- | | | | | | |
|---|------------|---|------------|---|-------------|
| a | 668,250 | b | 7,404,714 | c | 20,497,722 |
| d | 727,568 | e | 22,898,172 | f | 127,981,045 |
| g | 11,328,686 | h | 12,981,888 | i | 63,497,299 |

Q12. Find the quotient and the remainder for each of the following parts:

Answers:

- | | | | | | | | | |
|---|----|---------|---|------|---------|---|------|---------|
| a | 64 | 85/112 | b | 58 | 259/425 | c | 929 | 545/721 |
| d | 57 | 85/162 | e | 175 | 67/30 | f | 930 | 35/634 |
| g | 38 | 198/326 | h | 1378 | 2/525 | i | 1295 | 210/753 |

Q13. Find the dividend.

Answers:

- | | | | | | | | |
|---|------|---|------|---|------|---|-------|
| a | 4697 | b | 8900 | c | 8025 | d | 38014 |
|---|------|---|------|---|------|---|-------|

Q14. Express the product of the prime factors in index notation by drawing factor table for the following numbers:

Answers:

- | | | | | | | | |
|---|------------------|---|---------------------------------|---|----------------|---|-----------------|
| a | $2^3 \times 3$ | b | $2 \times 3^2 \times 5$ | c | 3×7^2 | d | $2^2 \times 17$ |
| a | $2^2 \times 3^3$ | b | $2 \times 3 \times 5 \times 11$ | | | | |

Q15. Solve the sentences given below, remember the order!

Answers:

- a 3 432 b 3 60 c 7 105
 d 65 130 e 4 780 f 48 96

Q16. Solve the sentences:

Answers:

- a $3/2$ b 155 c 132 d 45 e $17/9$
 f 312 g -45 h 1118 i 7 j 14.2

Q17. Solve the following and give the answer in simplest form.

Page no. 101

Answers:

- a $5/8$ b 1 c 2 d $2 \frac{17}{105}$ e $1/15$
 f $-25/126$ g $2 \frac{16}{55}$ h $301/720$ i $135/3136$

Q18. Answer these questions.

Answers:

- a $1/4$ b no c $1/32$ d $3/32$ e $3/16$ f $3/16$

Q19. Statement question for fractions.

Page no. 102

Answers:

- a 72 b $3 \frac{5}{6}$ hours c \$122.5
 d 500ml kanwal e $1 \frac{1}{4}$ dozens f $3/10$ kg $1/2$ kg

Q20. Simplify these:

Page no. 103

Answers:

- a 10.963 b -34.55 c 130.24 d 2.794 e 203.015 f 8.095

Q21. Read and solve.

Answers:

- a 5.76s b He deducted more money, he should return 11.54
 c 3.5325 cm d 0.231 e 360.67 f no

Q1. Look at the figures given below and write down what percentage of each figure is shaded.

Page no. 106

Answers:

- (a) 25% (b) 10% (c) 95% (d) 65%
 (e) 50% (f) 30% (g) 82% (h) 1%

Q1. Complete the table given below by filling in the missing percentages, fractions or decimal numbers.

Page no. 107

Answers:

- (a) 0.30 (b) $45/100$ 45% (c) $25/100$ 0.25
 (d) 0.12 12% (e) $99/100$ 0.99 (f) $48/100$ 48%

Q2. Write down the following percentages as a fraction in the simplest form.

Answers:

- (a) $10/100$ $1/10$ (b) $20/100$ $1/5$ (c) $25/100$ $1/4$
 (d) $40/100$ $2/5$ (e) $50/100$ $1/2$

Q1. Find the percentage of the quantities given below.

Page no. 108

Answers:

- (a) 6 kg (b) 15 min (c) Rs 25 (d) 10 cm
 (e) 70 ml (f) 4 l (g) 30 min (h) Rs 4

Q2. Read and solve.

Answers:

- (a) Rs 75 (b) 20 (c) 36 (d) 45 min (e) 2

Q1. Compare the percentages and fill in the box with $>$, $<$ or $=$.

Page no. 109

Answers:

- (a) $<$ (b) $<$ (c) $=$ (d) $<$ (e) $>$ (f) $>$

Q2. Arrange the following groups of numbers in descending order.

Answers:

- (a) 55%, 54%, 45% (b) 24%, 21%, 3% (c) 39%, 38%, 37.5%

Q1. Complete the table by finding the averages of the given set of values:

Page no. 111

Answers:

- a 3 b 12 c 25 d 152.5 e 244

Q2. Read and solve.

Answers:

- a 106.4 km b Rs 4,060 c \$45.5 d 35.6 cm

Q1. Complete each of the following ratio tables:

Page no. 113

Answers:

- | | | | | |
|---|---------------|---------------|---------------|----------------|
| a | Rs 20 : Rs 40 | Rs 30 : Rs 60 | Rs 40 : Rs 80 | Rs 50 : Rs 100 |
| b | 28 : 6 | 42 : 9 | 56 : 12 | 70 : 15 |
| c | 2 : 12 | 3 : 18 | 4 : 24 | 5 : 30 |

Q1. Round off the following money amounts to:

Page no. 115

Answers:

- a) ₹ 6,77,890 b) \$ 3,451,200 c) ₹ 12,46,000
d) \$ 520,000 e) ₹ 200,000

Q2. Arrange the money amounts given below in ascending order.

Answers:

- a) ₹ 50.00; ₹ 50.05; ₹ 50.05; ₹ 50.55; ₹ 55.50
b) \$ 1000.01; \$ 1001.10; \$ 1010.00; \$ 1100.11; \$ 1110.10
c) £ 888.99; £ 888.89; £ 899.99; £ 988.88; £ 999.88
d) ₹ 7,000,777; ₹ 7,077,000; ₹ 7,707,007; ₹ 7,770,707
e) ₹ 6, 55,984; ₹ 6, 56,498; ₹ 6, 65,894; ₹ 6,66,489

Q3. Divide the following amounts of money and give the answers in paise, cents or pence:

Answers:

- a) 40 paise b) $0.75 = 75$ pence c) $0.25 = 25$ cents
d) $0.5 = 50$ paise e) $0.20 = 20$ pence f) $0.10 = 10$ cents

Q4. Find out the total money spent for each of the shopping bills:

Page no. 116

Answers:

- a) ₹ 944 b) ₹ 6,936 c) ₹ 1,029.25

Q1. Find the unit prices:

Page no. 118

Answers:

- a) ₹ 7.50 b) £ 0.60 or 60 pence c) ₹ 38.00
d) ₹ 120.50 e) \$ 0.99 or 99 cents f) \$ 1.80

Q2. For each of the following pairs of items, find which one is a better buy:

Answers:

- a) 250 g for ₹ 75 b) 1 litre for ₹ 115
c) Pack of 20 for \$ 4.20 d) 150 cm for £ 4.5

Q1. Complete the table given below, by reading the money amounts.

Page no. 119

Answers:

- a Profit ; Rs 16.00 b Loss ; Rs 35.00 c Cost Price ; \$12.00
d Selling Price ; £162.75 e Cost Price ; Rs 1010.05 f Loss ; \$200.00
g Selling price ; Rs 3409.38

Q1. Find out the percentage loss or percentage profit:

Page no. 120

Answers:

- a Profit ; 40% b Profit ; 47.6% c Loss ; 10%
d Loss ; 1.39% e Loss ; 13.04% f Profit ; 15.625%

Q2. Read and solve.

Answers:

- a \$3552.00 b \$60.00 c \$25.30 d \$2.00
e \$1.50 f \$95.24 g \$6.25 h \$1616
i Profit = Rs 16,250 ; 2.5% j Profit = Rs 276.00 ; 23%

Q1. Add or subtract the given time intervals:

Page no. 123

Answers:

- a 8 min ; 15 sec b 9 hr ; 31 min c 9 weeks ; 3 days
d 12 yrs ; 1 month e 1 min ; 57 sec f 1 hr ; 57 min
j 3 weeks ; 5 days h 1 yr ; 10 months

Q1. Using the time line find the departure time for the following train journeys:

Page no. 124

Answers:

- a 11:47 am. b 10:53 am. c 12:05 am d 11:07 am e 11:59 am

Q2. Select the correct answer for the statements given below:

Page no. 125

Answers:

- a 9 hrs and 40 min b 8:35 am c 66 min
d 9:50 am e 11 hrs and 10 min f 5:05 pm

Q3. Use the table to answer the questions.

Page no. 126

Answers:

- a 17 yrs b 7 yrs c 27 yrs d 7 yrs e 72 yrs

Q1. Complete the table given below:

Page no. 127

Answers:

- a 0.1 hrs ; 6 min b 0.2 hrs ; 12 min c 0.6 hrs ; 36 min
d 0.25 hrs ; 15 min e 0.75 hrs ; 45 min

Q2. Read and solve.

Answers:

- a 8:05 pm b 2 hrs 10 min c 9 hrs ; 50 min
d 1 hr; 55 min per day, 9 hrs; 35 min per week e 2:05 pm on Saturday
f 15 hrs; 18 min, work time for Thursday = 4 hrs; 42 min
g 4 hrs; 53 min, arrival time = 5:44 pm

Page no. 127

Q1. Using the Time clocks given above fill in the blanks:

Answers:

- a 4 hrs b 6 hrs c 8:30 pm d 1:45 am.

Page no. 130

Q1. Complete the table given below and write down the speed in km/hr.

Answers:

- a 48 km ; 48 km/hr b 48 km ; 48 km/hr c 75 km ; 75 km/hr
d 65 km ; 65 km/hr e 90 km ; 90 km/hr

Page no. 131

Q2. Read and solve.

Answers:

- a 45 km/hr b 32 km c 27 m/min ; 1,620 m/hr d 2 hr 30 min

Q1. Write down the initial temperatures and the final temperatures after the given number of degrees increase or decrease:

Answers:

- a 4°C b -3°C c -2°C d -9°C e 0°C

Page no. 135

Q1. Identify the angles as acute, obtuse, right or straight line angle:

Page no. 137

Answers:

- a 41° ; acute angle b 90° ; right angle c 180° ; straight line angle
 d 125° ; obtuse angle e 82° ; acute angle f 140° ; obtuse angle

Q1. Measure the reflex angles given below with a protractor.

Page no. 139

Answers:

- a 330° b 235° c 290° d 233°

Q1. Identify the following pairs of lines as parallel, perpendicular or intersecting – not perpendicular:

Page no. 142

Answers:

- a Perpendicular b Parallel c Intersecting – not perpendicular
 d Parallel e Perpendicular f Intersecting – not perpendicular

Q1. Recall that the polygons are named by the number of sides and match the polygons given below with the correct name. Also write if it is regular or irregular:

Page no. 144

Answers:

- a Isosceles triangle ; regular b Rectangle ; irregular
 c Pentagon ; regular d Hexagon ; regular
 e Trapezium ; irregular f Octagon ; regular
 g Pentagon ; irregular h Decagon ; regular
 i Pentagon ; irregular

Q1. In the shapes given below identify the triangles with respect to their angles and sides.

Page no. 149

Answers:

- a Acute ; Equilateral b Obtuse ; Scalene
 c Right angled ; Isosceles d Right angled ; Scalene
 e Acute ; Isosceles f Acute ; Scalene

- Q2. Look carefully at the figures given below. Find how many right angles, pairs of equal sides and if the equal sides are parallel or adjacent. Mark the special name for that quadrilateral.

Page no. 150

Answers:

- a) No right angle ; 4 ; Parallel and adjacent ; Rhombus
 b) 4 ; 2 ; Parallel ; Rectangle
 c) No right angle ; No equal side ; not equal ; Trapezium
 d) No right angle ; 2 pairs equal ; 2 pairs parallel ; Parallel

- Q1. Find the area and perimeter of the following figures given on a grid.

Page no. 153-155

Answers:

- a) area = 15 cm² ; perimeter = 16 cm b) area = 25 cm² ; perimeter = 20 cm
 c) area = 10 cm² ; perimeter = 14 cm d) area = 12.5 cm² ; perimeter = 14.5 cm
 e) area = 6 cm² ; perimeter = 10 cm f) area = 5 cm² ; perimeter = 10.2 cm

- Q2. Find the area and perimeter of the following shapes:

Answers:

- a) area = 5 cm² ; perimeter = 12 cm b) area = 4 cm² ; perimeter = 11.5 cm
 c) area = 6 1/4 cm² ; perimeter = 10 cm d) area = 8.4 cm² ; perimeter = 12.4 cm

- Q3. Find the length of each side and the area of the square if its perimeter is:

Answers:

- a) Length = 6 cm ; area = 36 cm² b) Length = 5.5 m ; area = 30.5 m²
 c) Length = 10 cm ; area = 100 cm² d) Length = 1 km ; area = 1 km²

- Q 4. Find the width and area of a rectangle if its perimeter and length is:

Answers:

- a) Width = 7 cm ; area = 35 cm² b) Width = 22.5 m ; area = 900 m²
 c) Width = 11 cm ; area = 44 cm² d) Width = 5 km ; area = 12.5 km²
 e) Width = 15 m ; area = 150 m² f) Width = 9 km ; area = 108 km²

Q3. Complete the table given below:

Page no. 157

Answers:

- a 1 cm b 2.6 cm c $6\frac{6}{4}$ d 3.9 cm e 20.2

Q1. For each of the diameter given below find the circumference (take $\pi = 3.14$):

Page no. 158

Answers:

- a 15.7 cm b 20.41 cm c 2.355 m d 31.4 m

Q2. Find out the circumference of circle having radius as:
(take $\pi = 3.14$)

Answers:

- a 21.98 cm b 43.96 cm c 65.94 m d 314 cm

Q1. Find the volume of following cubes:

Page no. 159

Answers:

- a 91.125 cm^3 b 314.432 cm^3 c 3.375 cm^3 d 27 cm^3

Q2. Find the volume of following cuboids:

Page no. 160

Answers:

- a 30 cm^3 b 34.32 cm^3 c 560 cm^3 d 30.6 cm^3
e 34.5 cm^3 f $3\frac{1}{3}\text{ cm}^3$

Q1. For each set of the numbers given below, order from least to highest to find mean, median, mode and range.

Page no. 165, 166

Answers:

- | | | | | |
|---|-------------|----------------------|----|--------------|
| a | 35/5, 7 | 7 | 5 | 10, 5, 5 |
| b | 91/7, 13 | 12 | 12 | 19, 10, 9 |
| c | 40/10, 10 | $\frac{3+4}{2}, 3.5$ | 0 | 9, 0, 9 |
| d | 690/6, 115 | 117 | no | 156, 75, 81 |
| e | 681/7, 97.3 | 91 | 91 | 166, 28, 138 |

Q2. Find the median and the range for the collected money amounts.

Answers:

13.5 13

Q3. Find the mode and the mean.

Answers:

i) 35.1 ii) 33.5

Q1. Answer the following:

Page no. 167

Answers:

- | | | | | | |
|---|--------|--------------|---|---------|--------|
| a | 22.5°C | 1 pm to 2 pm | b | 72.5 cm | week 1 |
|---|--------|--------------|---|---------|--------|

Q2. Answer the following:

Answers:

- | | | | |
|---|----|--------|------------------|
| a | 14 | 2 | Orange and grape |
| b | 10 | Friday | 44 |

Q1. Fill in the blanks after observing the pie chart.

Page no. 171-172

Answers:

- | | | | | | | | | |
|---|---------|---------|---|-------|--------------|----------------|---|-----|
| a | 1 | 3 | 2 | b | 2 | 3.5 | 1 | 0.5 |
| | i) 5/50 | ii) 40% | | i) 5% | ii) 800/4000 | iii) 1200/4000 | | |

Q1. Use the coordinate graph given to write the ordered pair for each of the points marked.

Page no. 175

Answers:

L(5,2) M(3,6) R(9,6) T(1,10) Q(1,1) N(0,4) S(10,1) U(2,0)

Q1. Given that there are 10 marbles in each bag, write down the probability (in decimal):

Page no. 178

Answers:

 a 0.9 b 0.6 c 0.2 d 0.5 e 0.7 f 1 g 0.7 h 0

Q2. Look at the spinners given below:

Page no. 179

Answers:

 a $\frac{4}{8}$ b $\frac{1}{8}$ c $\frac{1}{8}$

Q3. A coin is tossed; write down the probability in fractions and percentage for the following outcomes:

Answers:

 a $\frac{1}{2}$ 0.5 b $\frac{1}{2}$ 0.5 c 0 0 d $\frac{1}{2}$ 0.5

Q1. Complete the table given below.
(Take "a" as the alphabet representing a number.)

Page no. 181

Answers:

- | | | | | | |
|-------------------------|------------|-------------------------|-----------------------|-------------------------|-------------------------|
| <input type="radio"/> b | $22 - a$ | <input type="radio"/> c | $51 + a$ | <input type="radio"/> d | Multiply 15 by a number |
| <input type="radio"/> e | $a \div 3$ | <input type="radio"/> f | Divide 11 by a number | <input type="radio"/> g | $17a$ |
| <input type="radio"/> h | $a - 6$ | <input type="radio"/> i | Divide a number by 7 | <input type="radio"/> j | $a + 3$ |

Q1. Write down algebraic expressions for the following statements.

Page no. 182

Answers:

- | | | | | | | | | | |
|-------------------------|------|-------------------------|----------|-------------------------|----------------|-------------------------|------------|-------------------------|-------------|
| <input type="radio"/> a | $4K$ | <input type="radio"/> b | $m + 20$ | <input type="radio"/> c | $1000 - x + y$ | <input type="radio"/> d | $p \div 4$ | <input type="radio"/> e | $10 \div q$ |
|-------------------------|------|-------------------------|----------|-------------------------|----------------|-------------------------|------------|-------------------------|-------------|

Q1. Write down correct expressions by adding the quantities given in each part

Page no. 184

Answers:

- | | | | |
|-------------------------|-----------------------------|-------------------------|------------------|
| <input type="radio"/> a | $b + b + b + b + b = 5b$ cm | <input type="radio"/> b | $a + b + c$ |
| <input type="radio"/> c | $xm + 8m$ | <input type="radio"/> d | $m + m + m = 3m$ |

Q1. Simplify the expressions given below:

Page no. 185

Answers:

- | | | | | | | | | | |
|-------------------------|------|-------------------------|----------|-------------------------|-----------|-------------------------|-----------|-------------------------|------------|
| <input type="radio"/> a | $4c$ | <input type="radio"/> b | $5b$ | <input type="radio"/> c | $-2f$ | <input type="radio"/> d | $19t$ | <input type="radio"/> e | $6x$ |
| <input type="radio"/> f | $7x$ | <input type="radio"/> g | $8 + 2b$ | <input type="radio"/> h | $5b + 10$ | <input type="radio"/> i | $5a + 3b$ | <input type="radio"/> j | $12h + 2q$ |

Q1. Write down the value of each expression for the given value of y:

Page no. 187

Answers:

- | | | | | | |
|-------------------------|--------------|---------------|-------------------------|-------------------|-------------------|
| <input type="radio"/> a | $6 + 5 = 11$ | $12 + 6 = 18$ | <input type="radio"/> b | $3 \times 7 = 21$ | $3 \times 3 = 9$ |
| <input type="radio"/> c | $1 - 1 = 0$ | $12 - 1 = 11$ | <input type="radio"/> d | $8 \div 2 = 4$ | $2 \times 8 = 16$ |

Q1. Write down the value of b, such that each equation makes a correct sentence.

Page no. 187

Answers:

- | | | | | | | | |
|-------------------------|----|-------------------------|----|-------------------------|----|-------------------------|----|
| <input type="radio"/> a | 15 | <input type="radio"/> b | 21 | <input type="radio"/> c | -2 | <input type="radio"/> d | -9 |
| <input type="radio"/> e | 55 | <input type="radio"/> f | 30 | <input type="radio"/> g | -5 | <input type="radio"/> h | 8 |

Q1. Read and solve.

Page no. 188

Answers:

- a 66% b \$375 c 60% d 110 e 450
f \$60 \$48 g 5% h 56 i 4032

Q1. Read and solve.

Page no. 189

Answers:

- a \$6 b \$8.75 c \$0.3 d 112.5 e \$0.35
f Apples g no h 8kg

Q 3. Read and solve.

Page no. 190

Answers:

- a 20% b 13.6%

Q4. Read and solve.

Answers:

- a 2 pm b 7 pm

Q5. Find the elapsed time.

Page no. 191

Answers:

24 min 7hrs 30min 6hrs 20min 5hrs 45min

Q 6. Read and solve.

Answers:

- a 6m/s b 5hrs 30min c 4.8km/h d 6.25m/sec e Mr Hassan

Q7. Read and find the temperature.

Page no. 192 - 193

Answers:

- a 18 degrees Celsius b 36 °C
c -30 degrees Celsius, -16 degrees Celsius, 3 degrees Celsius
d -17 degrees Celsius e -6 degrees Celsius

Q8. Find the area and perimeter of the following shapes (given that each small box is of 1 cm^2):

Answers:

- a Area: 10 cm^2 Perimeter: 16 cm^2 b Area: 11 cm^2 Perimetre: c Area: 12 cm^2 Perimeter:

Q9. The perimeter of square is 40 cm. How long are its sides? Find the area of the square.

Answers: 10 cm 100 cm^2

Q10. Jamila is making a display board for the school talent show. The display board is a 1.2 m by 0.8 m rectangle. She needs to put a ribbon border around the entire display board. What is the length of ribbon that she needs?

Answers: 4m

Page no. 196

Answers:

- a 1080 cm^3 b 400 cm^3 c 219.45 cm^3 d 32.88 cm^3

Q16. Name the quadrilaterals which follow the following facts:

Page no. 197-198

Answers:

- a Parallelogram b Acute triangle c Square d Kite e trapezoid

Q17. If you select a marble without looking, how likely is it that you will pick a green one?

- Answers: a 0 b $1/4$

Q18. Suppose you have 5 white, 5 gray, and 8 black socks in a drawer. What is the probability that without looking, you pick a black sock from the drawer?

Page no. 198

Answers: $8/18$

Q19. On which colour is the spinner more likely to land?

Answers: Magenta

Q20. If you roll a 6-sided dice, what is the probability of rolling an odd number?

Answers: $3/6$

If the post office is 2 units directly south of the school, what would be the location of the post office?

Answers: (8,5)

Q22. The grid below shows the location of some landmarks in a park.

Page no. 199

Answers:

- a) Statue b) (8, 8) c) (8, 1)

Q23.

a) Which of the following ordered pairs is located inside the triangle?

Answers: (6,3)

b) Write down the coordinates of the three corners of the triangle.

Answers: (4, 2) (6, 7) (9, 2)

Q24. Evaluate each of the following algebraic expressions for $p=9$.

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Answers:

- | | | | | | |
|-----------------|----------|------------------|--------|---------------|--------|
| a) $= 21 + 9$ | $= 30$ | b) $= 90 \div 9$ | $= 10$ | c) $= 9 + 13$ | $= 22$ |
| d) $= 6 \div 9$ | $= 0.66$ | e) $= 32 - 9$ | $= 23$ | f) $= 7(9)$ | $= 63$ |
| g) $= 9 \div 3$ | $= 3$ | h) $= 3(9) + 5$ | $= 32$ | | |

Q25. Simplify the following algebraic expressions:

Answers:

- | | | |
|--------------|--------------------|--------------|
| a) $9e + 4$ | b) $11s + 11t - 2$ | c) $13 + 4n$ |
| d) $13 + 2n$ | e) $6c + 7d$ | f) $8p - 4$ |

Q26. Express each sentence as algebraic expression:

Answers:

- a $43 + n$ b $c - 12$ c $7e$ d $j + 13$ e $v - 28$
f $x44$ g $f - 20$ h $30 - h$ i $32 - t$ j $j - 10$
k $t12$ l $200 \div n$ m $8m$

Q27. Write the algebraic expressions to match the following sentences:

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Answers:

- a $56 \times x$; \$24 b $45 - x - 33$ c $\$1.5h + \$3b + \$2s$; \$18.5
d $245 + r - g$ e $C / 5$

TALKING NUMBERS

Answer Keys

