

CLASS:- 6TH
SUBJECT:- MATH

NEPS
RAJBAGH SGR.

TERM:- 2ND - 2021
M: MARKS:- 80

PART A

Long type questions: Do any five questions:

Q=1 Find the ratio of:

(a) 27 to 36

(b) 30 minutes to 45 minutes

Q=2 Solve the following:

(a) $a - 6 = 10$

(b) $15 = m + 7$

Q=3 Find x if the following are in proportion:

(a) $x, 64, 30, 24$

(b) $30, x, 18, 27$

Q=4 50 l of milk kept in two vessels in the ratio 3:2. Find the quantity of milk in each vessel.

Q=5 The cost of 6 cans of juice is Rs 210. Find the cost of 4 such cans.

Q=6 Ahmad purchased 15 kg 500 g rice, 25 kg 750 g flour and 3 kg 250 g sugar. Find the total weight of his purchase. Is it 50 kg or less? If less, how much less?

Q=7 Check whether the numbers 8, 24, 72 are in continued proportion? [$5 \times 6 = 30$]

SHORT TYPE QUESTIONS

Q=1 Which of the following are equations:

i) $x - 20 = 7$

(ii) $P + 7 > 5$

iii) $\frac{x}{2} + 1 = 7$

(iv) $2b = 10$

(v) $\frac{4}{8} = 10$

[$5 \times 1 = 5$]

PART : B

Do any five questions

P.T.O

Q=1 Draw a circle of radius 3.5cm.

Q=2 Draw two concentric circles (circles with the same centre) of radii 3cm and 4cm.

Q=3 Draw a line segment 6.6cm and construct its $\perp$ bisector.

Q=4 Using a ruler and a protractor, construct angles of the following measures.

(a) 35°

(b) 90°

Q=5 Draw a square of side 4cm, using a ruler and compasses.

Q=6 Given three points A, B and C which are not on the same line, how many circles can be drawn through three points?

Q=7 Draw a line segment AB of length 3.5cm. Construct a line segment, whose length is equal to 2AB.
[$5 \times 7 = 35$]

PART : C

Q=1 Choose the correct answer:

i) Three times 'x' is written as _____.

(a) $x+3$ (b) $3+x$ (c) $3x$ (d) $3 \div x$

(ii) Which of the following is a variable _____.

(a) 30 (b) -12 (c) 6 (d) K

(iii) What is the place value of 3 in the decimal 47.235

(a) 3 tens (b) 3 ones (c) 3 tenths (d) 3 hundredths

iv) Twenty three point five is written as

(a) 2.35 (b) 23.05 (c) 2.305 (d) 23.5

(v) Added to the sum of 9 and 6 is written as

(a) $P(q+6)$ (b) $P+(q+6)$ (c) $P+(6q)$ (d) $(P+q)+6$

(vi) which is the smallest number:

(a) 3173 (b) 100193 (c) 99109 (d) 1999

(vii) The smallest whole number is

(a) 10 (b) 1 (c) 0 (d) -1

(viii) The predecessor of 3009 is

(a) 3010 (b) 3100 (c) 3008 (d) 3011

(ix) A line segment PQ is denoted by

(a) $\overline{PQ}$ (b) PQ (c) $\overleftrightarrow{PQ}$ (d) $\vec{PQ}$

(x) The vertex of $\angle PMN$ is

(a) P (b) M (c) N (d) O

$$[1 \times 10 = 10]$$

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