

Team INTERVAL
Foundation
Course

MATHS

Level - Basic



1 - Write the number names?

1

11

2

12

3

13

4

14

5

15

6

16

7

17

8

18

9

19

10

20

2 - Write the backward counting?

a) From 50 to 40 (by 1s)

b) From 200 to 150 (by 10s)

c) From 90 to 60 (by 5s)

d) From 600 to 540 (by 10s)

3 - Word problems

a) Riya had ₹100. She spent ₹10 every day. Count backward and write how much money she had after 3 days.

b) A rocket countdown starts from 10. Write the backward counting till liftoff (0).

4 - Write in words?

1 → _____

6 → _____

12 → _____

30 → _____

45 → _____

5 - word problems?

a) In a race of 10 students, Rahul came 4th. How many students finished before him?

b) A school held an art competition. Meera was 7th. If there were 20 participants, what position did she hold from the last?

c) A bus stops at 12 stations. If you get off at the 9th station, which station number comes after yours?

6 - Write the following numbers on the wagons in order from biggest to smallest?

7 19 11 ~~24~~ 15 6 ~~22~~

18 21 2 13 29 11 23

25 7 27 14 21 10 18

6 24 19 2 13 22 17

6 - Fill in the blanks?

a) $45 \underline{\quad} 54$

b) $128 \underline{\quad} 120$

c) $300 \underline{\quad} 300$

d) $76 \underline{\quad} 67$

e) $150 \underline{\quad} 200$

7 - Arrange in order?

a) Arrange in ascending order: 56, 89, 34, 72

b) Arrange in descending order: 120, 150, 115, 140

8 - Word problem?

a) Rahul has 48 marbles and Riya has 52 marbles. Who has more marbles? Write using $>$ or $<$.

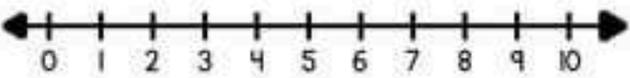
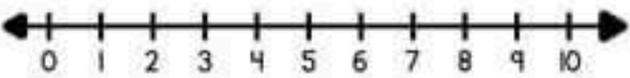
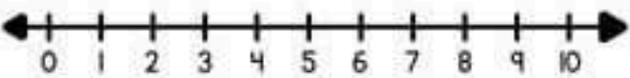
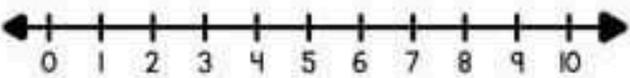
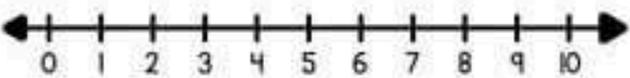
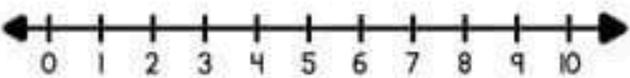
b) A library has 120 storybooks and 95 picture books. Which is greater? Write using $>$ or $<$.

c) A shopkeeper sold 75 pencils in the morning and 60 pencils in the afternoon. Compare the sales using $>$ or $<$.

9 - Write the place value and place under lined digit?

| | Place Value | Value |
|---------------|-------------|-------|
| 4 <u>8</u> 6 | tens | 80 |
| 9 <u>2</u> | | |
| <u>5</u> 71 | | |
| 8 <u>1</u> 2 | | |
| 1 <u>6</u> 93 | | |
| <u>4</u> 257 | | |

10 - Find the sum using the number line?

| | |
|-------------------|--|
| $7 + 2 = \square$ |  |
| $1 + 3 = \square$ |  |
| $6 + 2 = \square$ |  |
| $2 + 4 = \square$ |  |
| $8 + 2 = \square$ |  |
| $5 + 4 = \square$ |  |

11 - Fill in the missing numbers?

$$\square + 6 = 9$$

$$2 + \square = 10$$

$$4 + \square = 8$$

$$\square + 1 = 7$$

$$\square + 7 = 12$$

$$3 + \square = 12$$

$$8 + \square = 11$$

$$\square + 7 = 9$$

$$\square + 3 = 10$$

$$6 + \square = 8$$

$$4 + \square = 12$$

$$\square + 9 = 13$$

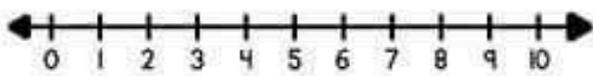
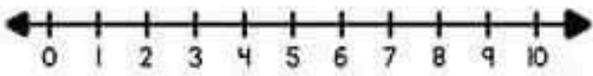
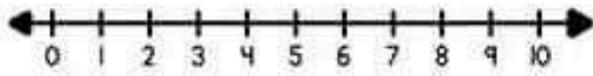
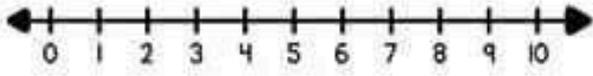
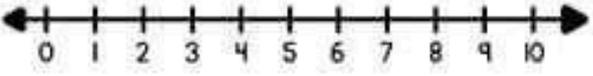
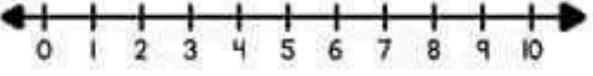
$$\square + 10 = 14$$

$$5 + \square = 11$$

12 - Mixed Addition Word Problems?

- a) A box has 9 red balls and 47 blue balls. How many balls are there in total?
- b) Riya has 123 stickers. Meera gave her 76 more. How many stickers does she have now?
- c) A bus carries 56 adults and 23 children. How many people are on the bus altogether?
- d) There are 345 books in one shelf and 78 books in another. How many books are there altogether?
- e) A farmer collected 215 oranges on Monday and 178 on Tuesday. How many oranges did he collect in total?

13 - Find the difference using the number line?

| | |
|---|------------------|
|  | $8-2 = \square$ |
|  | $3-1 = \square$ |
|  | $6-4 = \square$ |
|  | $10-5 = \square$ |
|  | $7-6 = \square$ |
|  | $4-3 = \square$ |

14 - Fill in the missing numbers?

$19 - \square = 13$



$\square - 8 = 5$

$16 - \square = 11$

$\square - 12 = 7$

$15 - \square = 12$

$\square - 11 = 3$

$18 - \square = 14$



$\square - 16 = 3$

$13 - \square = 6$

$\square - 12 = 8$

$19 - \square = 2$

$\square - 16 = 9$

$21 - \square = 10$



$\square - 15 = 11$

15 - Word problem?

a) Riya had 15 apples. She gave 7 to her friend. How many apples are left?

b) There were 42 birds on a tree. 18 flew away. How many birds are still on the tree?

c) A shop had 256 candies. 123 were sold. How many candies remain?

d) Tom collected 345 stamps. He gave 120 to his brother. How many does he have now?

e) A library had 500 books. 234 books were borrowed. How many books are left in the library?

16 - Write all odd numbers between 20 and 30?.

17 - Fill in the blanks?

a) 12 is an _____ number.

b) 39 is an _____ number.

c) The number that comes before 27 is _____ (odd/even).

d) The number that comes after 44 is _____ (odd/even).

e) The sum of two even numbers is always _____.

f) The sum of two odd numbers is always _____.

18 - Tick (✓) the Correct Answer

1 - Which of the following is an even number?

a) 17 b) 24 c) 31 d) 53

2 - Which of the following is an odd number?

a) 12 b) 44 c) 29 d) 56

3 - What is the next odd number after 47?

a) 48 b) 49 c) 50 d) 51

4 - What is the next even number after 62?

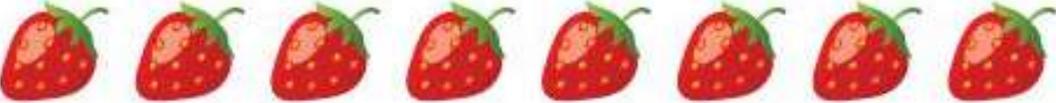
a) 63 b) 64 c) 65 d) 61

19 - Word problems

- a) There are 26 students in a class. Is 26 an odd or even number?
- b) Raju has 47 marbles. He wants to divide them equally between two friends. Will he be able to divide them equally? Why?
- c) A bus has 32 seats. Are the total seats odd or even?
- d) Neha counted 55 apples in two baskets. Is the total number of apples odd or even?

20 -study the picture graph. Use the information from the graph to answer the questions below.

Fruits in Grandma's Basket

| | |
|------------|--|
| Orange |  |
| Strawberry |  |
| Apple |  |
| Pear |  |

a) How many of each?

Orange

Apple

Strawberry

pear

b) Are there more apples or pears?

c) which fruit count to 8?

d) what is the total number of fruits in the basket?

21 - DONUT PICTOGRAPH

| Day | Number of donuts sold |
|-----------|--|
| Monday |  |
| Tuesday |  |
| Wednesday |  |
| Thursday |  |
| Friday |  |

- a) How many donuts he sell on thursday?
- b) Which day he sell the least donuts?
- c) Which day he sell the most donuts?
- d) Which day he sell 6 donuts?

22 - Word problems?

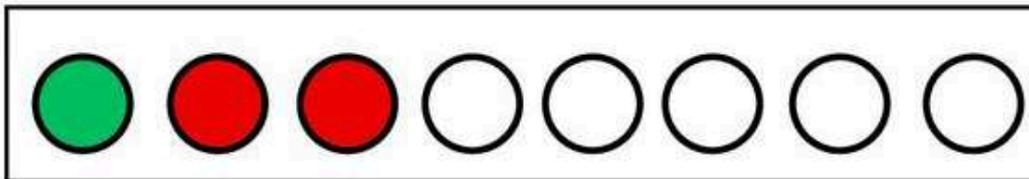
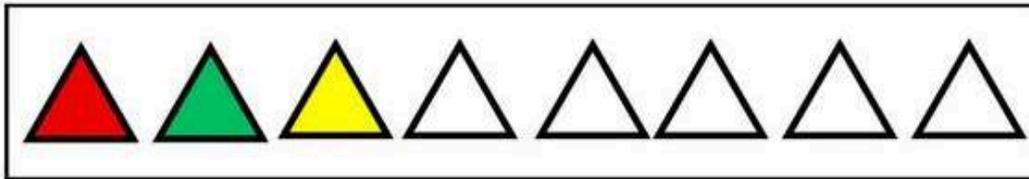
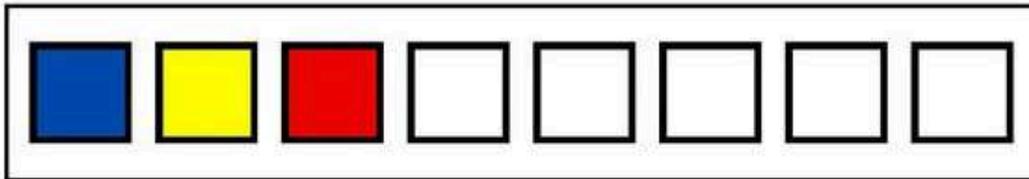
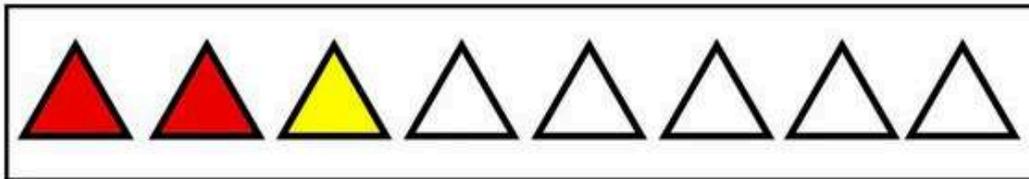
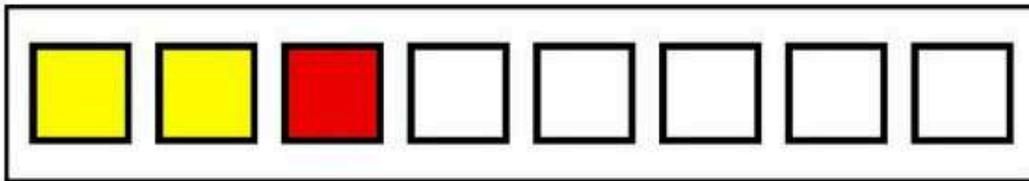
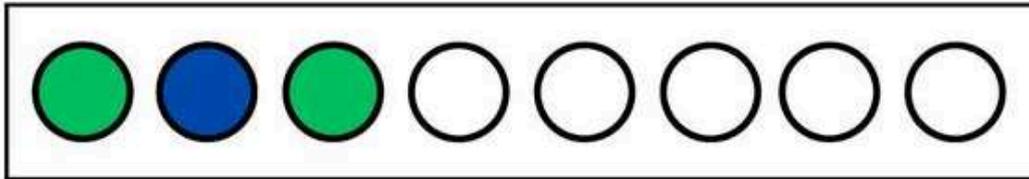
1) A school canteen sold 50 sandwiches on Monday, 60 on Tuesday, 70 on Wednesday, and 40 on Thursday.

- a) On which day were the most sandwiches sold?
- b) How many sandwiches were sold in all 4 days?

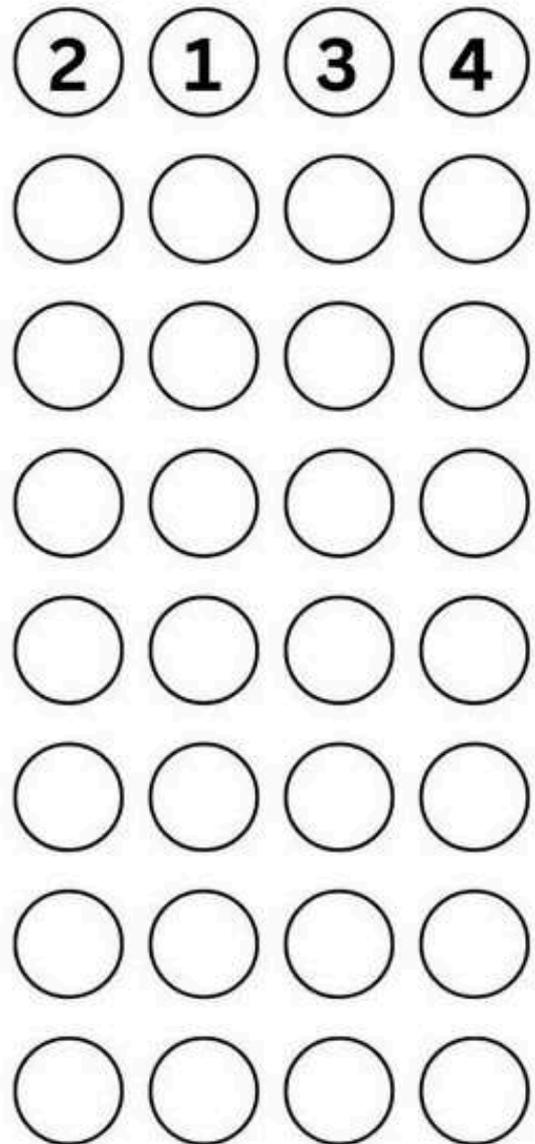
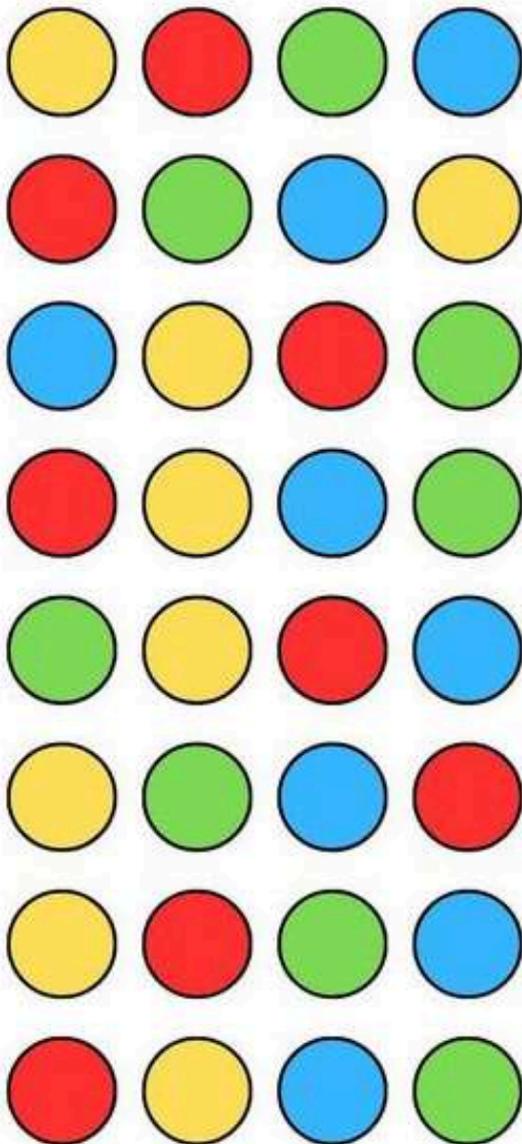
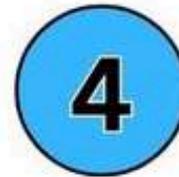
2) In a survey of pets owned by students, 10 had dogs, 8 had cats, 6 had birds, and 4 had fish.

- a) Which pet was most common?
- b) How many more students had dogs than fish?

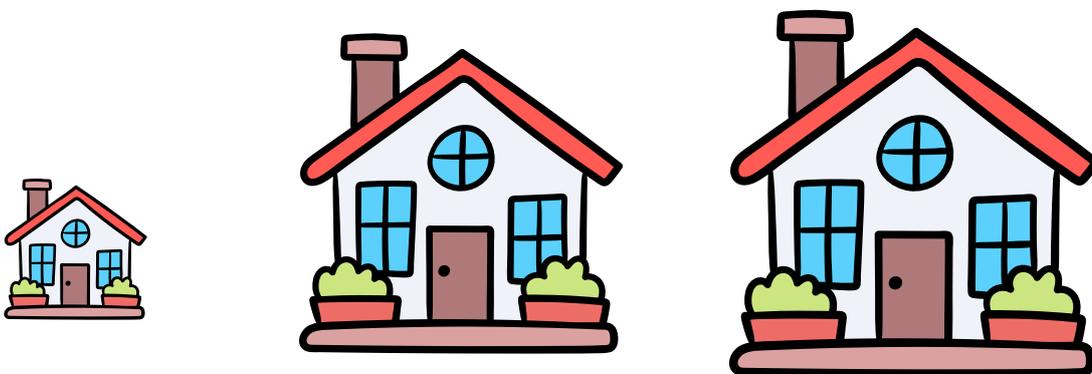
23 - Finish the pattern



24 - Code the numbers with corresponding colours?



25 - Draw the picture that comes next in the growing pattern?



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MATHS

Level - Intermediate



1 - Word problems

a) A factory produced 3,256 toys in January and 4,389 toys in February.

How many toys did it produce in total?

b) A library has 2,478 storybooks and 3,562 textbooks.

How many books are there altogether?

c) A farmer harvested 4,325 mangoes from one orchard and 2,917 from another.

How many mangoes did he harvest in total?

d) A train travels 1,245 km on Monday and 2,578 km on Tuesday.

What is the total distance covered?

e) A company sold 3,467 computers in 2023 and 4,523 computers in 2024.

How many computers were sold in both years together?

2 - Write each number in words?

a) 1907

b) 3816

.

c) 2100

d) 2345

Team INTERVAL
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Course

3 - Arrange the numbers in ascending order?

a) 2100, 5672, 1000, 7865

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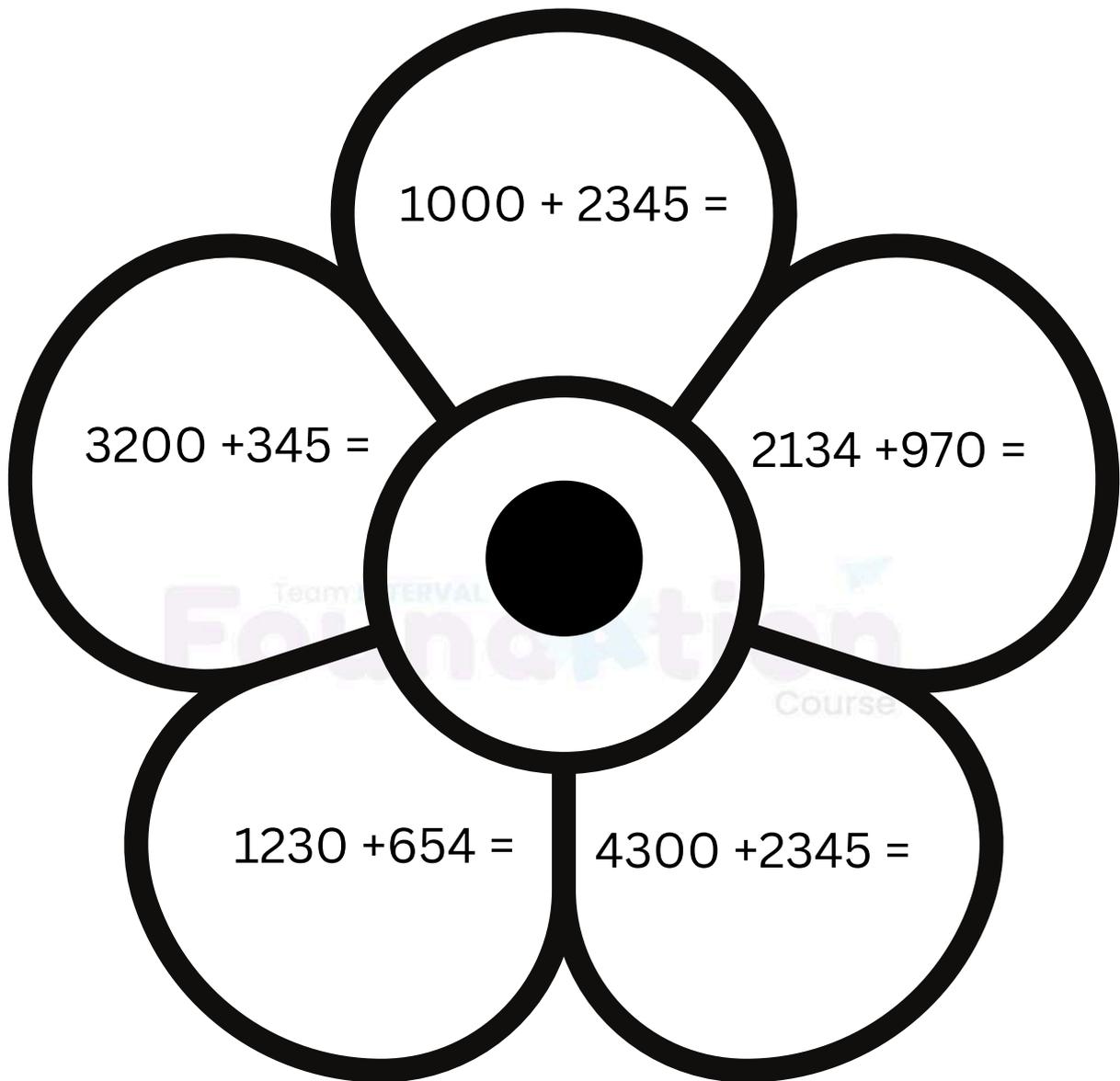
b) 3218, 2456, 7654, 1234

.....

c) 3456 , 1200 , 4321, 3400

.....

4 - Solve it



5 - Answer the Question given below?

- a) Write the smallest 4-digit number.
- b) Write the largest 4-digit number.
- c) What comes just before 5000?
- d) What comes just after 9999?

6 - Word problems?

- a) A school library has 3,425 books. The school bought 1,250 more books. How many books are there now?

- b) A shopkeeper had 8,000 candies. He sold 3,475 candies. How many candies are left?
- c) There are 4,216 boys and 3,895 girls in a school. What is the total number of students?
- d) A factory produced 7,842 toys in March and 8,156 toys in April. How many toys did it produce altogether?
- e) A train can carry 1,265 passengers. If there are 9 such trains, how many passengers can travel in all?
- f) A city's population is 5,432 in one year. The next year, it increases by 2,157 people. What is the new population?

7 - Fill in the blanks?

- a) 2744 , 3744 , 4744 , , ,
- b) 5099 , 6099 , 7099 , , ,
- c) 9251 , 8251 , 7251 , , ,

8 - Match?

five thousand six hundred and seventy

2704

Two thousand seven hundred and four

5670

seven thousand two hundred and forty

8502

five thousand nine hundred and seventy

5917

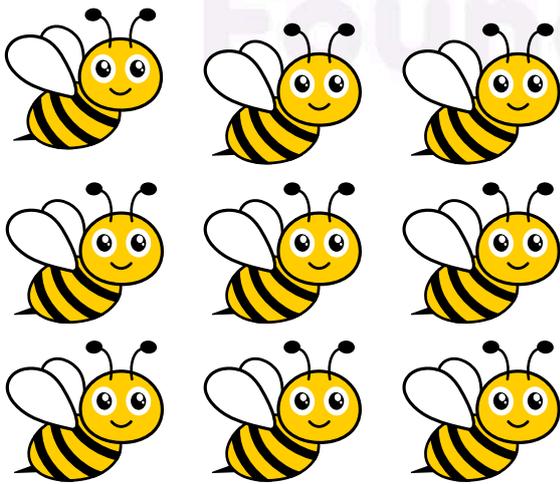
eight thousand five hundred and two

7240

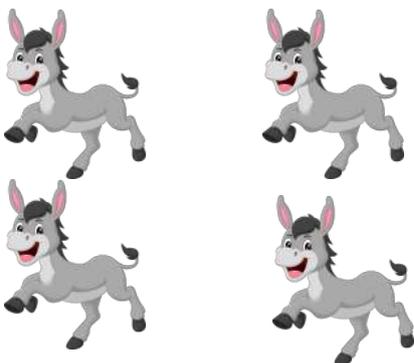
9 - Complete the equation?



$$4 \times \dots\dots\dots = 8$$



$$3 \times \dots\dots\dots = 9$$



$$2 \times \dots\dots\dots = 4$$

10 - Write the multiplication table of 3 & 4?

11 - Solve it?

a) $12 \times 3 =$

b) $32 \times 5 =$

c) $46 \times 3 =$

d) $34 \times 7 =$

e) $78 \times 3 =$

f) $65 \times 2 =$

12 - word problems?

a) One pen costs ₹24. What is the cost of 6 pens?

b) A bus has 42 seats. How many seats are there in 3 such buses?

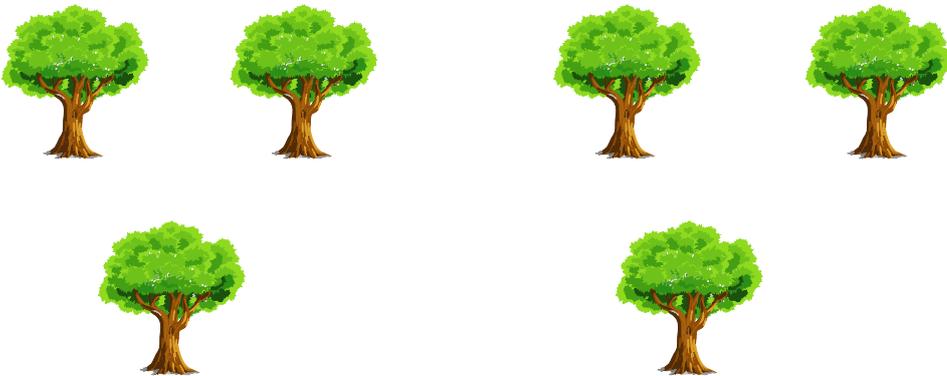
c) One packet has 28 chocolates. How many chocolates are there in 5 such packets?

d) A shopkeeper sold 36 apples each day for 7 days. How many apples did he sell in all?

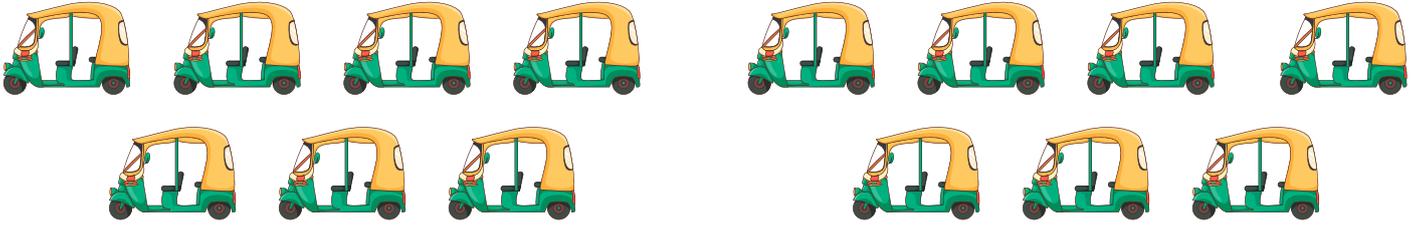
13 - Take the help of pictures to divide correctly and fill in the boxes.



$$\boxed{} \div \boxed{4} = \boxed{2}$$



$$\boxed{6} \div \boxed{} = \boxed{2}$$



14

÷

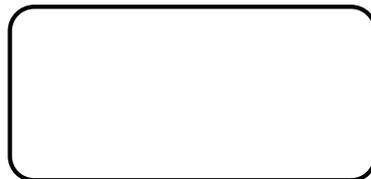
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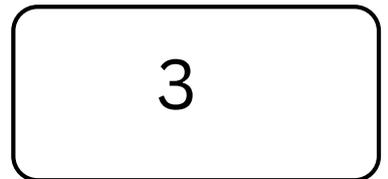
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3



14 - Match the following?

$6 \div 3 = \boxed{}$

③

$18 \div 6 = \boxed{}$

⑧

$21 \div 7 = \boxed{}$

②

$20 \div 2 = \boxed{}$

④

$64 \div 8 = \boxed{}$

⑩

$12 \div 1 = \boxed{}$

③

$20 \div 5 = \boxed{}$

⑫

15 - Word problem?

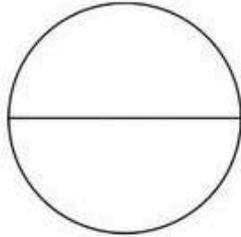
a) 72 apples are divided equally among 9 children. How many apples does each child get?

b) A shopkeeper has 84 chocolates. He packs them equally in 7 boxes. How many chocolates will be in each box?

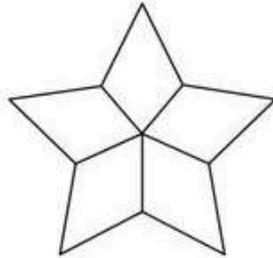
c) There are 96 students in 8 rows. How many students are there in each row?

d) A bus can carry 45 passengers. How many buses are needed to carry 180 passengers?

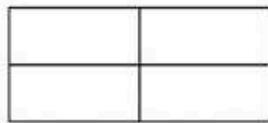
16 - Shade the part to represent the fraction?



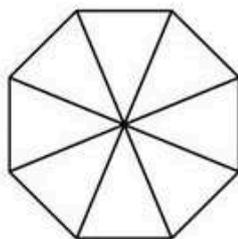
$$\frac{1}{2}$$



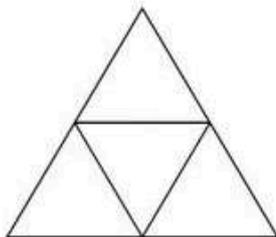
$$\frac{1}{5}$$



$$\frac{1}{2}$$



$$\frac{3}{8}$$



$$\frac{1}{4}$$

17 - Write the fraction for:

a) 2 shaded parts out of 5 parts

b) 6 shaded parts out of 8 parts

18 - Draw a circle and shade:

a) Half of it

b) One-third of it

c) One-fourth of it

19 - Draw a line to match the fractions

one - half

 $\frac{1}{4}$

one - Third

 $\frac{2}{3}$

one - quarter

 $\frac{1}{2}$

one - Sixth

 $\frac{1}{6}$

one - fifth

 $\frac{1}{8}$

one - eighth

 $\frac{3}{4}$

20 - Word problems?

a) A cake is cut into 2 equal pieces. Rani ate 1 piece. What fraction did she eat?

b) A ribbon is divided into 3 equal parts. Tinu used 1 part. What fraction did he use?

c) A pizza is cut into 4 equal slices. Sita ate 1 slice. What fraction of the pizza is left?

21 - Choose the correct answer?

1) The longer hand of a clock is called the:

- a) Hour hand
- b) Minute hand
- c) Second hand
- d) Time hand

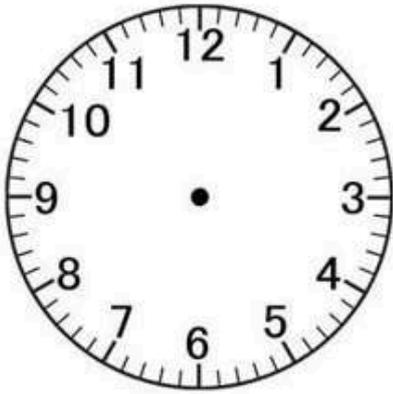
2) The shorter hand of a clock shows:

- a) Minutes
- b) Hours
- c) Seconds
- d) None of these

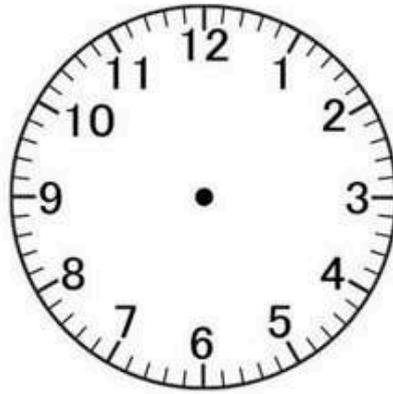
3) How many times does the hour hand move around the clock in one day?

- a) 1
- b) 2
- c) 3
- d) 4

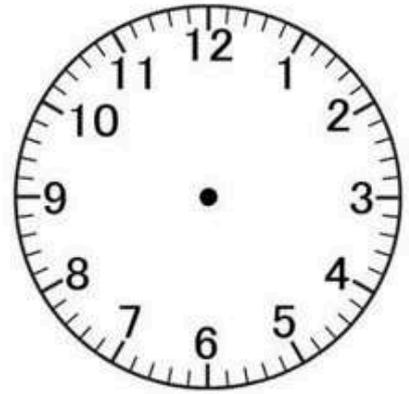
22 - Show the time on each clock.



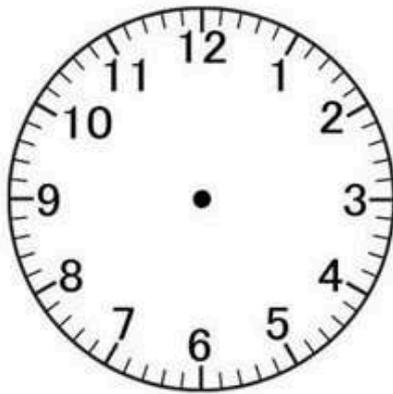
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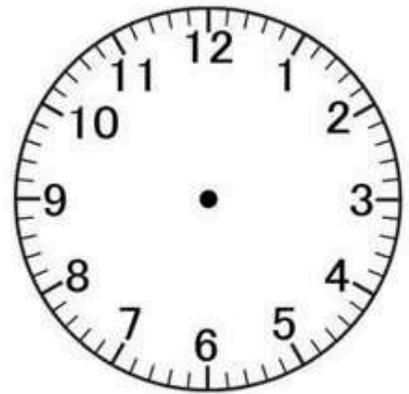
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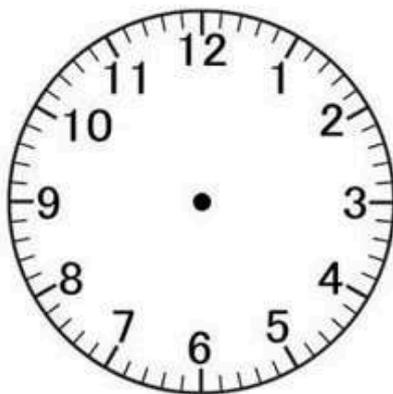
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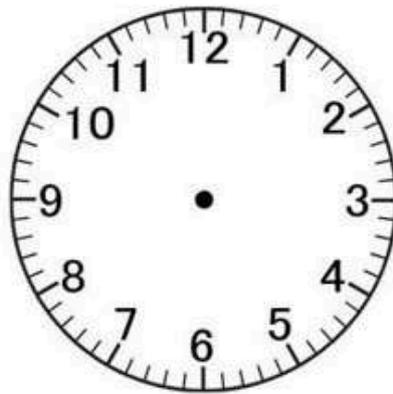
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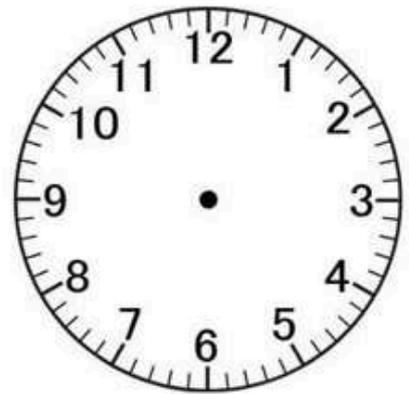
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11:00



6:00



1:00

23 - True or False.

- a) 3:00 A.M. means it is afternoon. ()
- b) 12:00 noon is written as 12:00 P.M. ()
- c) 12:00 midnight is written as 12:00 A.M. ()
- d) We go to school at 9:00 P.M. ()
- e) The sun rises in the A.M. ()

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24 - Write the days of the week in correct order.

Sunday

1

Friday

2

Saturday

3

Monday

4

Tuesday

5

Wednesday

6

Thursday

7

25 - True or False

- a) There are 13 months in a year. ()
- b) February has 29 days every year. ()
- c) December is the last month of the year. ()
- d) There are 52 weeks in one year. ()
- e) A leap year comes every 4 years. ()

26 - Fill in the blanks.

- a) There are ____ months in a year.
- b) The shortest month of the year is ____.
- c) A leap year has ____ days.
- d) The year comes after ____ and before ____.

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Course

MATHS

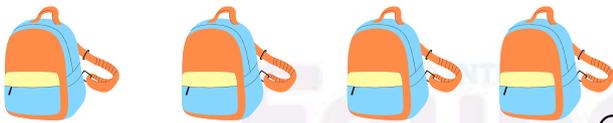
Level - Advance



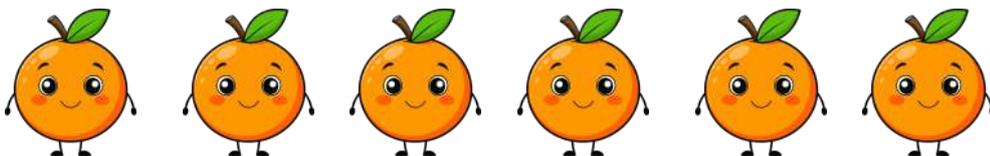
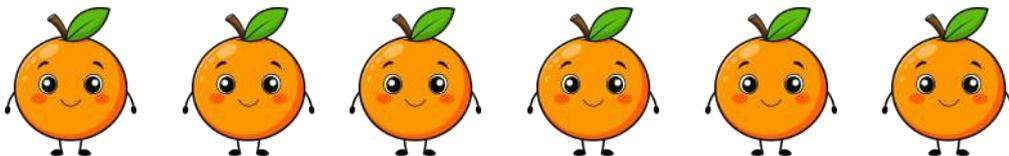
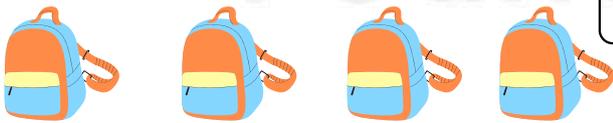
1 - Look at the array and complete the multiplication



$$2 \times \square = \square$$



$$\square \times 4 = \square$$



$$\square \times \square = 12$$

2 - Word problems.

a - Write the multiplication sentence for “7 multiplied by 6” and label its terms.

b - Riya multiplied 25 by 4 and got 100. Identify multiplicand, multiplier, and product.

c - What do we call the numbers that are multiplied together?

3 - Fill in the blanks.

a) The product of any number and zero is always _____.

b) The product of any number and one is always the _____ number.

4 - Fill in the boxes.

$$3 \times \square = 27$$

$$3 \times \square = 12$$

$$3 \times \square = 21$$

$$3 \times \square = 30$$

$$3 \times \square = 33$$

$$3 \times \square = 15$$

$$3 \times \square = 18$$

$$3 \times \square = 3$$

$$3 \times \square = 9$$

$$3 \times \square = 24$$

$$3 \times \square = 6$$

$$3 \times \square = 36$$

5 - Word problems

a) A ticket costs ₹9. What will be the total cost of 234 tickets?

b) There are 6 classrooms in a school. Each classroom has 128 students.

How many students are there in all?

c) A factory produces 317 bottles in one hour. How many bottles will it produce in 5 hours?

6 - Write the multiplication table of 8,9

7 - Find the product.

$$\begin{array}{r} 329 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 402 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 653 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 241 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 612 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 579 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 735 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 296 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 184 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 364 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 875 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 286 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 592 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 967 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 738 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 437 \\ \times 9 \\ \hline \end{array}$$

8 - Multiply the largest 3-digit number by 6.

9 - If one chocolate costs ₹4, how much will 999 chocolates cost?

10 - Choose the correct answer

$$24 \times 13 =$$

a) 312 b) 322 c) 342

$$36 \times 12 =$$

a) 432 b) 422 c) 442

$$47 \times 15 =$$

a) 700 b) 705 c) 715

$$25 \times 20 =$$

a) 400 b) 450 c) 500

$$99 \times 10 =$$

a) 990 b) 999 c) 1000

11- word problems.

a) One book costs ₹25. What is the cost of 34 books?

b) There are 28 students in one class. If there are 15 classes in a school, how many students are there in all?

c) A packet contains 18 apples. How many apples are there in 35 packets?

d) A pencil costs ₹8. What is the cost of 42 pencils?

12 - Find the product.

$$\begin{array}{r} 19 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 16 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 91 \\ \hline \end{array}$$

13 - Fill in the blanks.

a) In division, the number which is to be divided is called the _____.

b) The number by which we divide is called the _____.

c) The number of times the divisor divides the dividend is called the _____.

d) The number left over after division is called the _____.

e) In $84 \div 12 = 7$

84 is the _____

12 is the _____

7 is the _____

14 - Word problems.

a) 30 apples are to be shared equally among 5 children.

Dividend = ? Divisor = ? Quotient = ?

b) 48 chocolates are packed in 6 boxes.

How many chocolates are there in each box?
Identify the dividend, divisor, and quotient.

c) A number when divided by 7 gives quotient 8 and remainder 3.

What is the dividend?

(Hint: $\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$)

d) 45 sweets are divided among 9 children.

What is the quotient?

e) A number is divided by 5 and gives a quotient of 9 and remainder of 2.

Find the dividend?

15 - Word problems.

a) If 18 chocolates are divided among 1 child, how many chocolates does the child get?

b) A shopkeeper has 50 pens and divides them equally among 50 people. How many pens does each person get?

c) If you divide 0 apples among 5 friends, how many apples does each get?

d) Rani divided 10 pencils among 0 friends. Is this division possible? Why or why not?

16 - True or False?

- 1) Any number divided by 1 gives the same number. (_____)
- 2) Division by 0 is possible. (_____)
- 3) $0 \div 9 = 0$. (_____)
- 4) $10 \div 10 = 1$. (_____)
- 5) $25 \div 1 = 0$. (_____)

17 - calculate it?

a) $324 \div 3 =$ _____

b) $648 \div 6 =$ _____

c) $735 \div 5 =$ _____

d) $912 \div 4 =$ _____

e) $816 \div 8 =$ _____

18 - Fill in the blanks.

- a) The fraction of 2 parts shaded out of 8 parts is _____
- b) One whole is equal to /
- c) 3 parts out of 4 equal parts = _____
- d) The numerator in $\frac{3}{4}$ is _____
- e) The denominator in $\frac{2}{5}$ is _____
- f) If a cake is cut into 8 equal parts and you eat 3 parts, the fraction eaten is _____

19 - Word problems.

- a) Meena ate 2 out of 8 slices of pizza. What fraction of the pizza did she eat?
- b) Raju has 12 mangoes. He gave $\frac{1}{4}$ of them to his friend. How many mangoes did he give?
- c) A rope is 10 meters long. Rani used $\frac{1}{2}$ of it. How much rope did she use?

20 - Choose the correct answer.

1) $\frac{2}{3}$ is a

a) Proper fraction b) Improper fraction c) Mixed fraction

2) $\frac{3}{4}$ and $\frac{4}{5}$ are

a) Like fractions b) Unlike fractions c) Mixed fractions

3) $\frac{5}{5}$ is

a) Proper b) Improper c) Mixed

21 - Solve the following.

a) $\frac{3}{5} + \frac{1}{5} =$ _____

b) $\frac{3}{4} + \frac{1}{4} =$ _____

c) $\frac{7}{8} - \frac{3}{8} =$ _____

d) $\frac{5}{10} - \frac{3}{10} =$ _____

e) $\frac{2}{5} + \frac{2}{5} =$ _____

f) $\frac{4}{9} - \frac{1}{9} =$ _____

22 - Write the decimal form.

a) 3 ones and 5 tenths = _____

b) 7 ones and 2 tenths = _____

c) 9 ones and 8 hundredths = _____

d) 5 ones and 6 tenths = _____

e) 4 ones and 25 hundredths = _____

23 - Add or subtract the decimals.

a) $0.2 + 0.3 =$ _____

b) $0.7 - 0.4 =$ _____

c) $1.2 + 0.5 =$ _____

d) $2.5 - 1.1 =$ _____

e) $3.6 + 2.3 =$ _____

24 - Choose the correct answer.

1) 7.6, the 6 is in the

a) Tenths place b) Ones place c)

Hundredths place

2) $0.5 + 0.4 =$

a) 0.8 b) 0.9 c) 1.0

3) $1.0 - 0.4 =$

a) 0.6 b) 0.4 c) 0.5

4) Which is greater?

a) 0.8 b) 0.09

5) $0.25 =$

a) $\frac{1}{4}$ b) $\frac{1}{2}$ c) $\frac{3}{4}$

25 - Convert the fraction into decimal.

$$\frac{1}{2} = \underline{\hspace{2cm}}$$

$$\frac{1}{4} = \underline{\hspace{2cm}}$$

$$\frac{3}{4} = \underline{\hspace{2cm}}$$

$$\frac{3}{10} = \underline{\hspace{2cm}}$$

$$\frac{7}{100} = \underline{\hspace{2cm}}$$