

# LEVEL 5

## LEARNING



1000

+

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**Numbers 1 to 1000**  
**Addition & Subtraction**

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## Descending order

**Explanation:** Set of numbers are given, write from bigger number to smaller number in the given boxes.

**Example:**

258	749	581	178
749	581	258	178

### Exercise 8

**Write in descending order**

1)

486	938	318	639

2)

777	111	555	999

3)

281	494	602	78

4)

300	900	400	500

5)

815	472	501	742



## Addition of 3 digit tens

**Explanation:** To add 3 digit tens, add hundreds and tens place like 2 digit addition, and put zero in the units place.

**Example: 260 + 170**

Add 26 and 17, which is 43 and put 0 for units place, the answer is 430.

### Exercise 18

#### Addition of 3 digit tens

1)  $240 + 120 =$

2)  $480 + 230 =$

3)  $140 + 340 =$

4)  $520 + 160 =$

5)  $380 + 120 =$





## Multiply by 2 using doubling

**Explanation:** Multiply by 2 is nothing but doubling once.

**Example:**  $356 \times 2$

$$356 \times 2 = 356 + 356 = 712$$

### Exercise 28

#### Multiply by 2 using doubling

1)  $36 \times 2 =$

2)  $73 \times 2 =$

3)  $124 \times 2 =$

4)  $240 \times 2 =$

5)  $363 \times 2 =$



## Subtract single digit from 3 digit number

**Explanation:** To subtract single digit from 3 digit number, put two imaginary 0s in front of the subtrahend and subtract like 3 digit subtraction or we can use splitting method.

**Key word:** Splitting in subtraction is to split the subtrahend into two numbers, so that one of the number must be equal to units of the 3-digit number.

**Example:**  $143 - 7$

Units place of the subtrahend is greater than units place of the minuend, so use splitting method. Units place of the minuend is 3, so split 7 into 3 and 4. First subtract 3,  $143 - 3 = 140$  and then subtract 4,  $140 - 4 = 136$ , which is the final answer.

$$187 - 4$$

We can take this as  $187 - 004$ , subtract hundreds, tens and units, the answer is 183

$$187 - 4 = 183$$

### Exercise 38

#### Subtract single digit from 3 digit number

1)  $148 - 5 =$

2)  $131 - 3 =$

3)  $186 - 4 =$

4)  $114 - 3 =$

5)  $142 - 8 =$







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# LEVEL 6

## LEARNING



1000

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Multiply & Divide

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### 3 digit with single digit multiplication using moving multiplier

**Explanation:** To multiply 3 digit number with a single digit number, write multiplicand on the top and the single digit multiplier below multiplicand's units place.

First multiply with units place, write the answer below units place, if any carry occurs write the carry above tens place.

Move the multiplier to tens place, multiply with tens place, and add the carry if anything from the previous step. Write the answer below tens place. If carry occurs write the carry above the hundreds place.

Now move the multiplier to hundreds place, multiply with hundreds, add the carry if anything from the previous step and write the answer below hundreds place.

**Example:**  $247 \times 7$

$$\begin{array}{r} 34 \\ 247 \\ 7 \times \phantom{0} \times \\ \hline 1729 \\ \hline \end{array}$$

### Exercise 8

#### Multiply using moving multiplier

1) $371 \times 3$	2) $723 \times 4$	3) $165 \times 2$
4) $407 \times 8$	5) $592 \times 3$	

## Single digit division with remainder

**Explanation:** The first number is the dividend and the second number is the divisor. Check how many times the divisor fit into the dividend that is called quotient and remaining number is called remainder.

**Example:**  $48 \div 5$

$$5 \times 9 = 45$$

There are nine 5s in 48, with excess 3 which is called remainder.

$$48 \div 5 = 9 \text{ R } 3$$

### Exercise 18

#### Single digit division with remainder

1)  $13 \div 2 =$

2)  $20 \div 3 =$

3)  $23 \div 4 =$

4)  $29 \div 5 =$

5)  $35 \div 6 =$





### Find the missing digit in product

**Explanation:** Do vertically and crosswise multiplication to find the missing digit in the product.

**Example:**  $51 \times 87 = 4 \square 37$

$$\begin{array}{r} \textcircled{4} \\ | 5 \quad 1 | \\ | 8 \quad 7 | \\ \hline 4 \quad 4 \quad 3 \quad 7 \\ \hline \end{array}$$

The missing digit is 4  
 $51 \times 87 = 4437$

### Exercise 28

#### Find the missing digit in product

1) $14 \times 2 \square = 28$	2) $18 \times 17 = 3 \square 6$	3) $23 \times 91 = 20 \square 3$
4) $27 \times 76 = 205 \square$	5) $36 \times 42 = 1 \square 12$	

## Divisibility check for 3 using digit sum

**Explanation:** To check the divisibility for 3, find the digit sum. If the digit sum is more than a single digit number, add it again till we get the digit sum in single digit. If the digit sum is 3, 6 or 9, the number is divisible by 3, otherwise it is not divisible by 3.

### Example: 57

Digit sum of 57 =  $5+7 = 12$

Digit sum of 12 =  $1+2 = 3$

The digit sum is 3, so 57 is divisible by 3.

## Exercise 38

Divisibility check for 3 using digit sum (write Yes or No)

1) 7

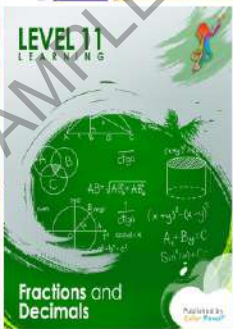
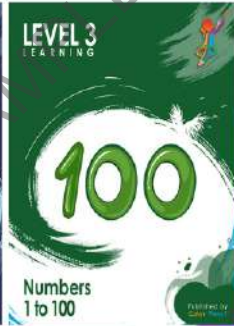
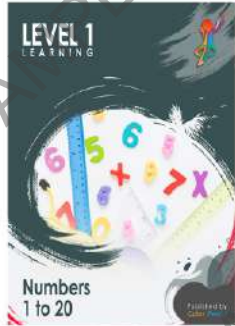
2) 12

3) 18

4) 19

5) 24





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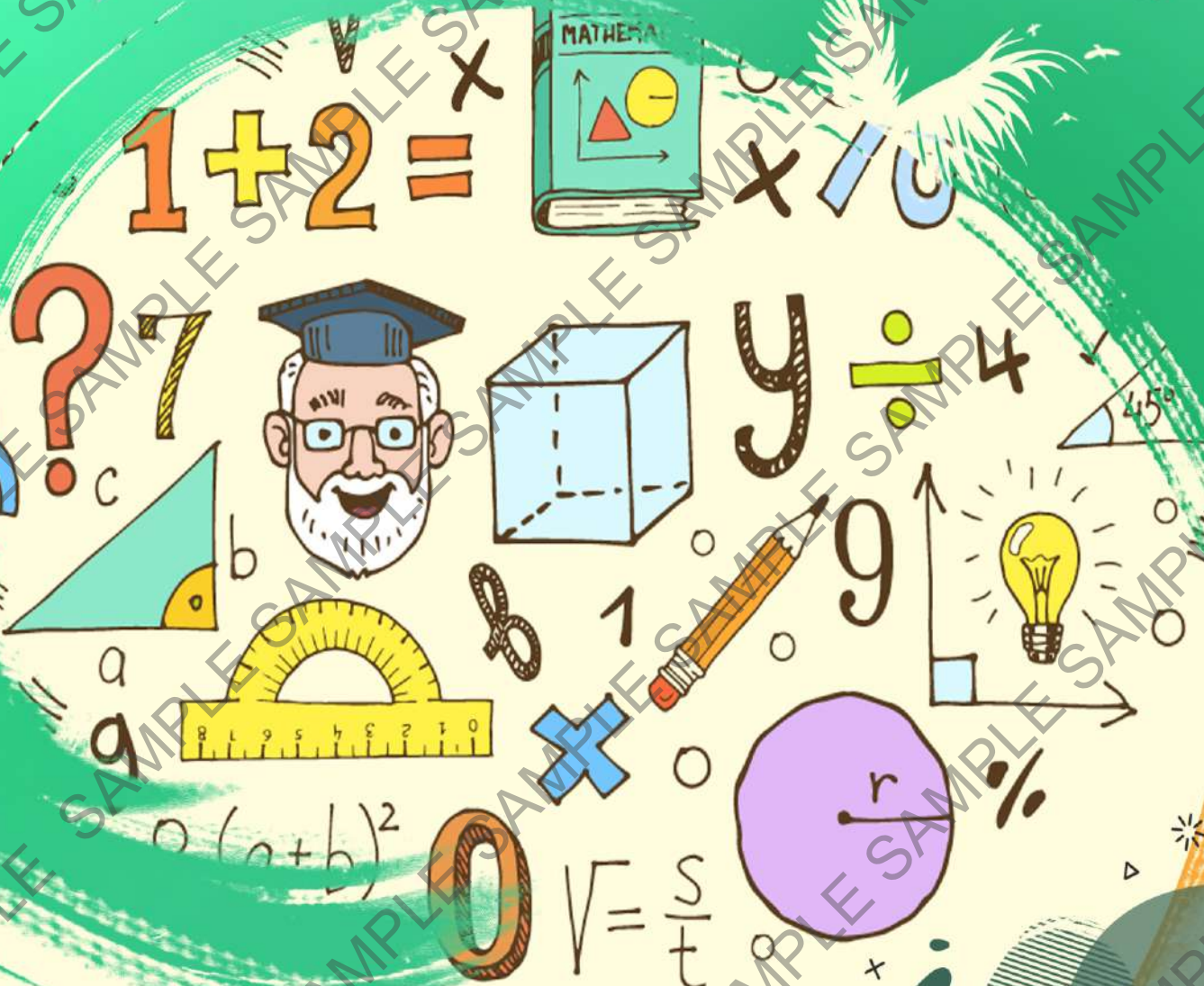
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# LEVEL 7

## LEARNING



# Fractions and Shapes

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## Fractions ascending order

**Explanation:** To arrange fractions in ascending order, the denominators must be the same. Arrange the fractions from smaller numerator to bigger numerator.

**Example:**

$\frac{4}{7}$	$\frac{6}{7}$	$\frac{3}{7}$	$\frac{5}{7}$
$\frac{3}{7}$	$\frac{4}{7}$	$\frac{5}{7}$	$\frac{6}{7}$

### Exercise 8

Arrange in ascending order

1)

$\frac{4}{5}$	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{3}{5}$

2)

$\frac{5}{6}$	$\frac{6}{6}$	$\frac{3}{6}$	$\frac{2}{6}$

3)

$\frac{7}{9}$	$\frac{2}{9}$	$\frac{5}{9}$	$\frac{1}{9}$

4)

$\frac{5}{7}$	$\frac{6}{7}$	$\frac{1}{7}$	$\frac{7}{7}$

5)

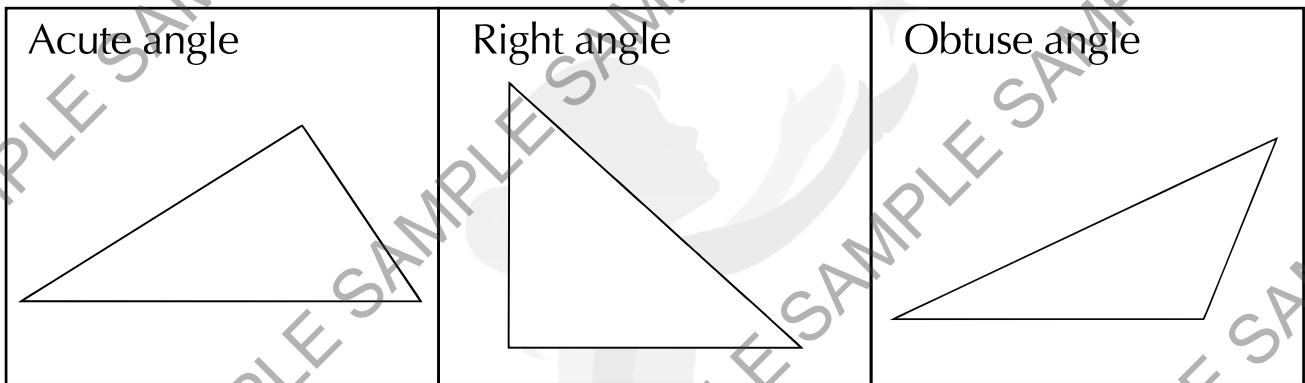
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{4}{4}$	$\frac{2}{4}$



## Triangles

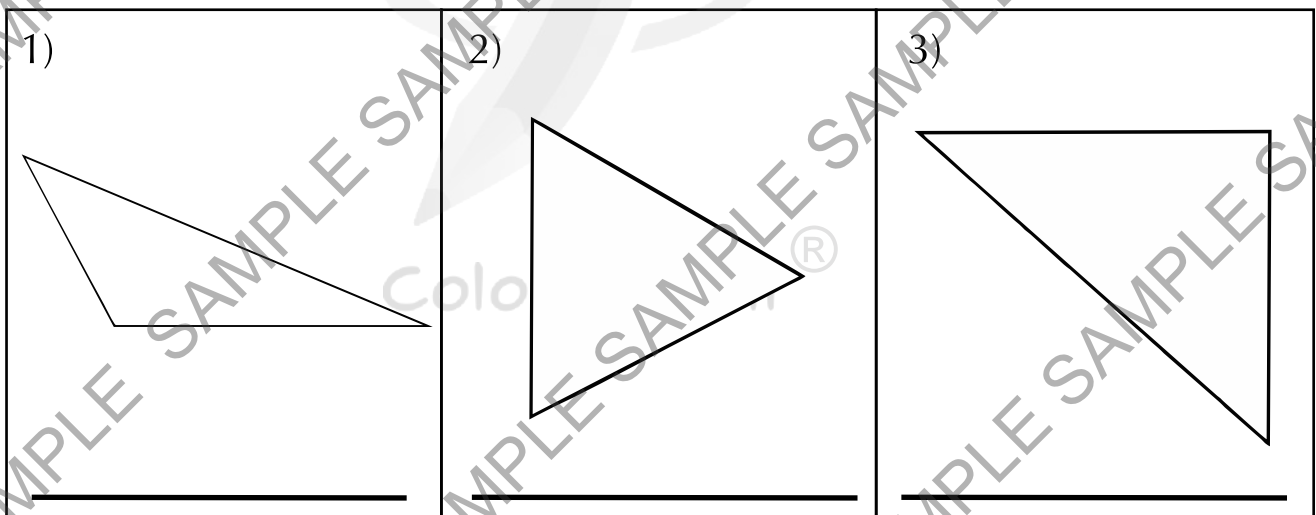
**Explanation:** Triangle is a plane figure which is formed by three sides and three angles. Based on angles, there are three types of triangles. If all the angles are acute (narrow open), it is called acute triangle. If one of the angle is right angle (two lines perpendicular to each other), it is called right triangle. If one of the angle is obtuse (wide open), it is called obtuse triangle.

**Example:**



## Exercise 18

Write name of the triangle



## Exercise 27

### Convert hours to minutes

- 1) 3 hours
- 2) 7 hours
- 3) 4 hours

### Convert days to hours

- 1) 3 days
- 2) 5 days
- 3) 9 days

### Convert cm to mm

- 1) 3 cm
- 2) 8 cm
- 3) 9 cm

**Convert km to m**

- 1) 9 km
- 2) 2 km
- 3) 8 km

**Convert kl to l**

- 1) 6 kl
- 2) 5 kl
- 3) 7 kl

**Convert yards to feet**

- 1) 3 yd
- 2) 8 yd
- 3) 2 yd

**Convert dollars to cents and rupees to paisa**

- 1) \$4
- 2) Rs. 5
- 3) \$7





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## Exercise 8

Write in descending order

1)	486	938	318	639
2)	777	111	555	999
3)	281	494	602	78
4)	300	900	400	500
5)	815	472	501	742
6)	69	355	5	161
7)	391	827	421	693
8)	894	329	571	444
9)	482	694	849	371
10)	328	609	567	51
11)	182	372	630	290
12)	894	329	571	444
13)	691	358	524	168

14)	181	373	636	525
15)	400	540	450	500
16)	288	688	188	988
17)	291	1000	472	937
18)	783	381	847	592
19)	683	413	851	900
20)	384	583	256	999
21)	720	746	782	719
22)	400	200	600	500
23)	482	861	901	574
24)	982	972	992	952
25)	271	628	474	785

## Exercise 18

### Addition of 3 digit tens

1)  $240 + 120 =$

2)  $480 + 230 =$

3)  $140 + 340 =$

4)  $520 + 160 =$

5)  $380 + 120 =$

6)  $130 + 420 =$

7)  $450 + 290 =$

8)  $370 + 330 =$

9)  $610 + 160 =$

10)  $450 + 270 =$

11)  $550 + 290 =$

12)  $240 + 390 =$

13)  $620 + 280 =$

14)  $840 + 140 =$

15)  $370 + 470 =$

16)  $710 + 110 =$

17)  $150 + 540 =$

18)  $390 + 470 =$

19)  $160 + 610 =$

20)  $350 + 460 =$

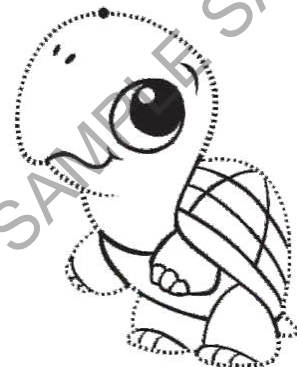
21)  $640 + 180 =$

22)  $260 + 470 =$

23)  $810 + 190 =$

24)  $420 + 240 =$

25)  $250 + 750 =$



## Exercise 27

### Doubling of 3 digit numbers

1) 293

2) 148

3) 472

4) 243

5) 421

6) 382

7) 195

8) 471

9) 373

10) 249

11) 361

12) 471

13) 146

14) 315

15) 285

16) 307

17) 126

18) 408

19) 397

20) 284

21) 495

22) 300

23) 183

24) 413

25) 290





## Exercise 35

### 3-digit subtraction with giving

1)  $572 - 318$

2)  $837 - 285$

3)  $418 - 195$

4)  $905 - 382$

5)  $726 - 219$

6)  $174 - 167$

7)  $442 - 175$

8)  $805 - 350$

9)  $245 - 198$

10)  $739 - 584$

11)  $505 - 475$

12)  $994 - 898$



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# LEVEL 6

ACTIVITY



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$17) 32 \times 8$

$18) 18 \times 4$

$19) 73 \times 7$

$20) 47 \times 9$

$21) 29 \times 5$

$22) 82 \times 4$

$23) 33 \times 6$

$24) 97 \times 2$

$25) 49 \times 7$

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### Exercise 13

Find square using special method

1)  $20^2 =$

2)  $70^2 =$

3)  $10^2 =$

4)  $60^2 =$

5)  $80^2 =$

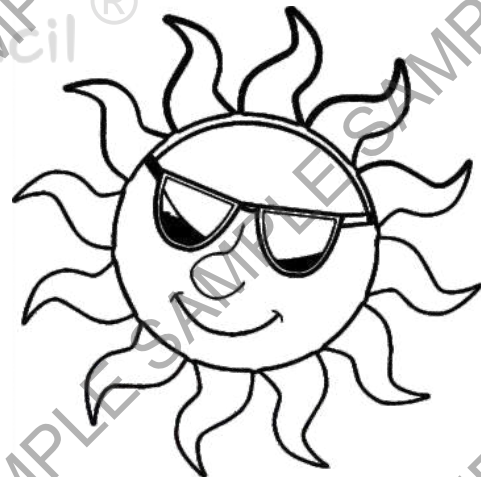
6)  $30^2 =$

7)  $90^2 =$

8)  $40^2 =$

9)  $100^2 =$

10)  $50^2 =$



## Exercise 20

### Division - 2-digit quotient with remainder

1) $47 \div 2$	2) $44 \div 3$	3) $63 \div 4$	4) $69 \div 5$
5) $81 \div 6$	6) $89 \div 7$	7) $93 \div 8$	8) $94 \div 9$
9) $59 \div 2$	10) $62 \div 3$	11) $73 \div 4$	12) $84 \div 5$
13) $87 \div 6$	14) $81 \div 7$	15) $99 \div 8$	16) $97 \div 9$



## Exercise 27

### Divide by 4 using halving

1)  $12 \div 4 =$

2)  $44 \div 4 =$

3)  $72 \div 4 =$

4)  $84 \div 4 =$

5)  $96 \div 4 =$

6)  $124 \div 4 =$

7)  $276 \div 4 =$

8)  $300 \div 4 =$

9)  $456 \div 4 =$

10)  $520 \div 4 =$

11)  $648 \div 4 =$

12)  $716 \div 4 =$

13)  $804 \div 4 =$

14)  $900 \div 4 =$

15)  $176 \div 4 =$

16)  $284 \div 4 =$

17)  $392 \div 4 =$

18)  $416 \div 4 =$

19)  $572 \div 4 =$

20)  $600 \div 4 =$

21)  $784 \div 4 =$

22)  $828 \div 4 =$

23)  $944 \div 4 =$

24)  $976 \div 4 =$

25)  $996 \div 4 =$





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# LEVEL 7

## ACTIVITY



# Fractions and Shapes

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## Exercise 6

Circle the smallest fraction

1)  $\frac{3}{7}$   $\frac{6}{7}$   $\frac{1}{7}$   $\frac{4}{7}$

9)  $\frac{4}{9}$   $\frac{7}{9}$   $\frac{3}{9}$   $\frac{1}{9}$

2)  $\frac{4}{5}$   $\frac{1}{5}$   $\frac{3}{5}$   $\frac{2}{5}$

10)  $\frac{4}{11}$   $\frac{8}{11}$   $\frac{6}{11}$   $\frac{9}{11}$

3)  $\frac{2}{9}$   $\frac{8}{9}$   $\frac{3}{9}$   $\frac{5}{9}$

11)  $\frac{6}{9}$   $\frac{4}{9}$   $\frac{8}{9}$   $\frac{9}{9}$

4)  $\frac{5}{7}$   $\frac{6}{7}$   $\frac{1}{7}$   $\frac{2}{7}$

12)  $\frac{7}{13}$   $\frac{4}{13}$   $\frac{8}{13}$   $\frac{3}{13}$

5)  $\frac{3}{8}$   $\frac{5}{8}$   $\frac{4}{8}$   $\frac{2}{8}$

13)  $\frac{8}{11}$   $\frac{2}{11}$   $\frac{5}{11}$   $\frac{7}{11}$

6)  $\frac{1}{4}$   $\frac{3}{4}$   $\frac{2}{4}$   $\frac{4}{4}$

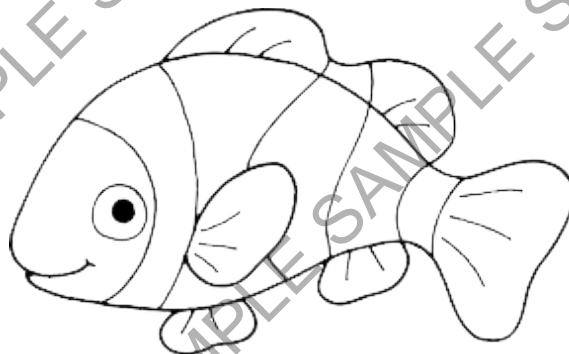
14)  $\frac{5}{13}$   $\frac{4}{13}$   $\frac{3}{13}$   $\frac{7}{13}$

7)  $\frac{3}{5}$   $\frac{5}{5}$   $\frac{2}{5}$   $\frac{4}{5}$

15)  $\frac{2}{9}$   $\frac{9}{9}$   $\frac{8}{9}$   $\frac{3}{9}$

8)  $\frac{3}{6}$   $\frac{1}{6}$   $\frac{4}{6}$   $\frac{2}{6}$

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## Exercise 16

Put appropriate sign (+, -)

1)  $\frac{1}{2}$    $\frac{1}{2} = \frac{2}{2}$

2)  $\frac{2}{3}$    $\frac{1}{3} = \frac{1}{3}$

3)  $\frac{3}{4}$    $\frac{1}{4} = \frac{2}{4}$

4)  $\frac{3}{5}$    $\frac{1}{5} = \frac{4}{5}$

5)  $\frac{4}{5}$    $\frac{2}{5} = \frac{2}{5}$

6)  $\frac{2}{6}$    $\frac{1}{6} = \frac{1}{6}$

7)  $\frac{4}{6}$    $\frac{1}{6} = \frac{5}{6}$

8)  $\frac{2}{7}$    $\frac{4}{7} = \frac{6}{7}$

9)  $\frac{3}{7}$    $\frac{1}{7} = \frac{4}{7}$

10)  $\frac{8}{9}$    $\frac{2}{9} = \frac{6}{9}$

11)  $\frac{4}{10}$    $\frac{3}{10} = \frac{7}{10}$

12)  $\frac{8}{10}$    $\frac{2}{10} = \frac{6}{10}$

13)  $\frac{7}{11}$    $\frac{3}{11} = \frac{10}{11}$

14)  $\frac{4}{11}$    $\frac{5}{11} = \frac{9}{11}$

15)  $\frac{12}{13}$    $\frac{7}{13} = \frac{5}{13}$

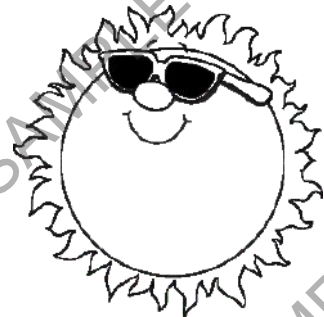
16)  $\frac{10}{13}$    $\frac{3}{13} = \frac{7}{13}$

17)  $\frac{13}{15}$    $\frac{7}{15} = \frac{6}{15}$

18)  $\frac{7}{15}$    $\frac{8}{15} = \frac{15}{15}$

19)  $\frac{12}{17}$    $\frac{4}{17} = \frac{16}{17}$

20)  $\frac{17}{19}$    $\frac{9}{19} = \frac{8}{19}$





## Exercise 25

Find area of the rectangle

1)  $l = 4 \text{ cm}, w = 5 \text{ cm}$

11)  $l = 40 \text{ cm}, w = 25 \text{ cm}$

2)  $l = 3 \text{ cm}, w = 7 \text{ cm}$

12)  $l = 11 \text{ cm}, w = 34 \text{ cm}$

3)  $l = 5 \text{ cm}, w = 6 \text{ cm}$

13)  $l = 16 \text{ cm}, w = 20 \text{ cm}$

4)  $l = 2 \text{ cm}, w = 9 \text{ cm}$

14)  $l = 25 \text{ cm}, w = 25 \text{ cm}$

5)  $l = 8 \text{ cm}, w = 1 \text{ cm}$

15)  $l = 50 \text{ cm}, w = 48 \text{ cm}$

6)  $l = 10 \text{ cm}, w = 5 \text{ cm}$

16)  $l = 24 \text{ cm}, w = 26 \text{ cm}$

7)  $l = 4 \text{ cm}, w = 12 \text{ cm}$

17)  $l = 74 \text{ cm}, w = 99 \text{ cm}$

8)  $l = 7 \text{ cm}, w = 15 \text{ cm}$

18)  $l = 80 \text{ cm}, w = 67 \text{ cm}$

9)  $l = 24 \text{ cm}, w = 8 \text{ cm}$

19)  $l = 99 \text{ cm}, w = 81 \text{ cm}$

10)  $l = 9 \text{ cm}, w = 17 \text{ cm}$

20)  $l = 95 \text{ cm}, w = 85 \text{ cm}$

### Exercise 3

S. No	Fraction	Numerator	Denominator	PF or IF
1	$\frac{1}{4}$	1	4	PF
2	$\frac{2}{6}$	2	6	PF
3	$\frac{6}{4}$	6	4	IF
4	$\frac{7}{8}$	7	8	PF
5	$\frac{3}{9}$	3	9	PF
6	$\frac{5}{10}$	5	10	PF
7	$\frac{8}{4}$	8	4	IF
8	$\frac{9}{12}$	9	12	PF
9	$\frac{7}{11}$	7	11	PF
10	$\frac{10}{4}$	10	4	IF
11	$\frac{11}{13}$	11	13	PF
12	$\frac{7}{15}$	7	15	PF
13	$\frac{15}{11}$	15	11	IF
14	$\frac{3}{13}$	3	13	PF
15	$\frac{13}{3}$	13	3	IF
16	$\frac{9}{6}$	9	6	IF
17	$\frac{6}{12}$	6	12	PF
18	$\frac{8}{14}$	8	14	PF
19	$\frac{14}{7}$	14	7	IF
20	$\frac{20}{18}$	20	18	IF



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