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21/E SKIWI

Vedic Math influenced math learning and activities. More than 1700% times faster than regular Math. It enhances in sharpening the mind, increases mental agility and intelligence. Increases speed and accuracy. It improves memory and boosts selfconfidence. It helps in developing the left and right sides of the JE SAMPLE brain. Easy to master and apply.

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Nearest 100's

Explanation: To find nearest hundreds, check tens place. If tens place is 5 or more than 5, add one to the hundreds place number and put 0 for tens and units place. Otherwise, put 0 for units and tens place and write the remaining digits as it is.

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Example:

Find nearest hundreds of 4286

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Tens place is 8 which is more than 5, so add 1 to the hundreds place number (2+1) and put 0 for tens and units place. Nearest hundreds of 4286 is 4300

Find nearest hundreds of 1729

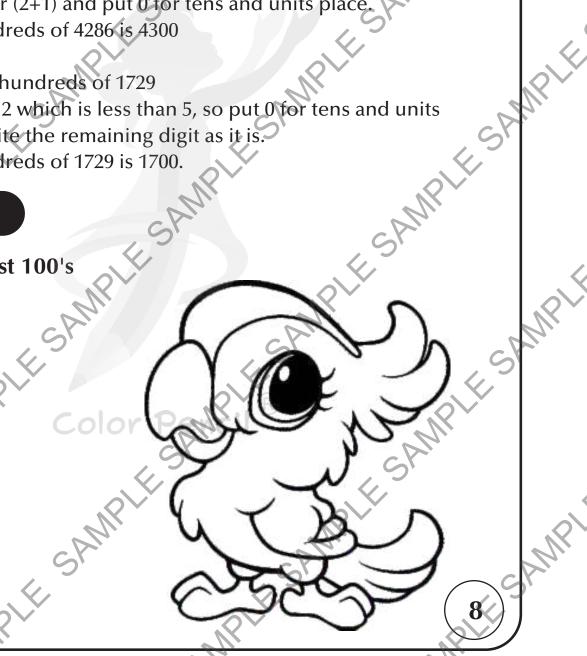
Tens place is 2 which is less than 5, so put 0 for tens and units place and write the remaining digit as it is. Nearest hundreds of 1729 is 1700.

Exercise 8

Write nearest 100's

- 1) 2362
- 2) 4737

- 5) 1296



Below base addition

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Explanation: To add below base number, first add the nearest base number using base number addition and then subtract the difference.

E SAMI

Example: 3295 + 1999

The nearest base of 1999 is 2000 and is 1 less than 2000. So first add 2000 and then subtract 1.

$$3295 + 2000 - 1 = 5294$$

$$4873 + 598$$

The nearest base of 598 is 600 and is 2 less than 600. So first add 600 and then subtract 2.

$$4873 + 600 - 2 = 5471$$

$$1597 + 87$$

The nearest base of 87 is 90 and is 3 less than 90. So first add 90 and MPLESP then subtract 3.

$$1597 + 90 - 3 = 1684$$

Exercise 16

Below base addition



(een) 2) 5871 - 2275 3) 9354 - 3756, SAMPLE 4) (4843 - 1820 5) 7286 - 2257 F. SAMPLE SAM 28 CANARA SAIN SAIN

Subtract from unity base numbers (lesser number of digits)

E SAMI

Explanation: In this case, the minuend is the unity base number, but the number of zeros of the minuend is not equal to the number of digits of the subtrahend. If the subtrahend has lesser number of digits, put imaginary 0s in front of the subtrahend to make it equal to the number of zeros of the minuend, then apply "All from 9 and the last from 10" to get the answer. If the subtrahend end with 0s, don't apply the formula for the last 0s, the digit before 0 is like last digit and it should be subtracted from 10.

Example: 1000 **-** 42

The minuend has three 0s and the subtrahend has two digits, put imaginary 0 in front of the subtrahend to make it three digit number Then, apply "All from 9 and the last from 10" to get the answer.

$$9-0=9$$
, $9-4=5$, $10-2=8$

21/2 Skini

The answer is 1000 - 42 = 958

10000 - 730

The minuend has four 0s and the subtrahend has three digits, put imaginary 0 in front of the subtrahend to make it four digits. Apply the formula "All from 9 and the last from 10", the subtrahend end with 0, so the digit before 0 is like last digit and it should be subtracted from 10, write the answer with last 0s. GAMPILE GAMÍ 10000 - 0730

$$9 - 0 = 9$$
, $9 - 7 = 2$, $10 - 3 = 7$

The answer is 10000 - 730 = 9270



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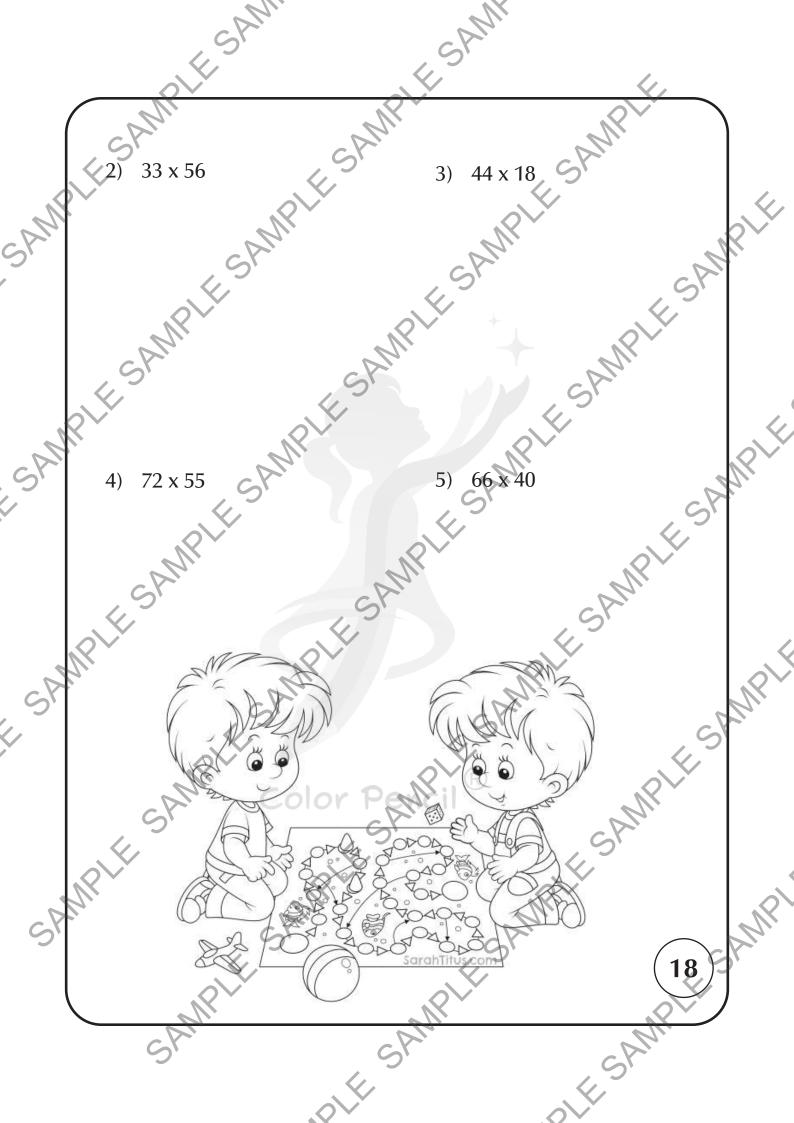
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3) 169 x 59, SAMPLE SAM 4) con x 15

5) 205 x 164

5) 205 x 164 SAMPLE SA SAMP! SAM

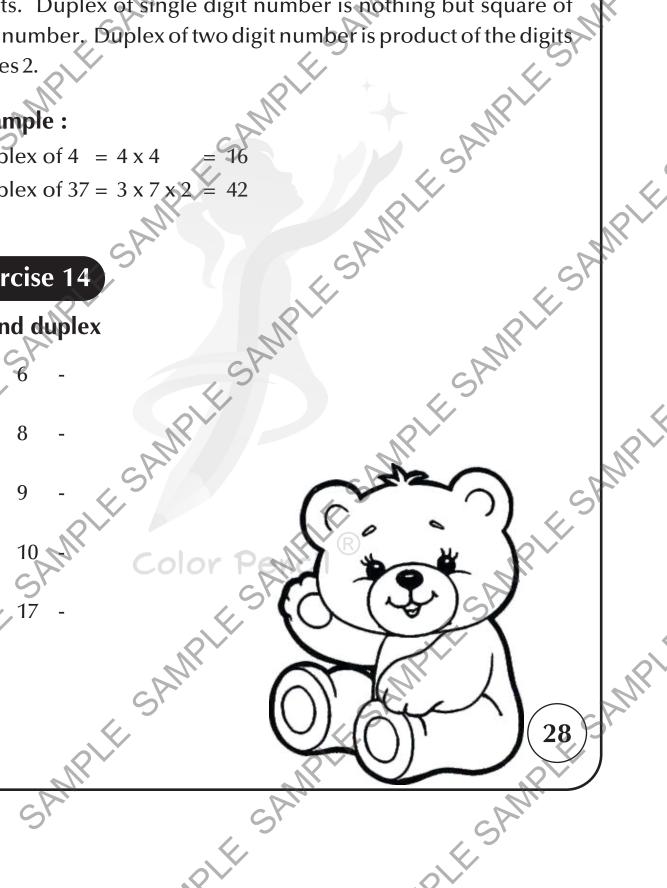


White Shini Duplex

SAMPLE SAMIN Explanation: Duplex is a special concept from ancient Indian Mathematics system which is used to find square and square roots. Duplex of single digit number is nothing but square of the number. Duplex of two digit number is product of the digits uplex of $4 = 4 \times 4 = 16$ Duplex of $37 = 3 \times 7 \times 2 = 42$

Find duplex

- 3)



SAMIRE SAMIR Straight division – no remainder

DIVISION

traight d;

plar **Explanation:** To divide a number by a single digit number, we can use straight division. In this method, divide the first digit by the divisor, write the quotient at the top and remainder before the next digit. Now move to the next number, repeat this division till the last digit. The number at the top is called stell quotient and the remainder from the last step is the final E SAMPLE SAMPLE remainder.

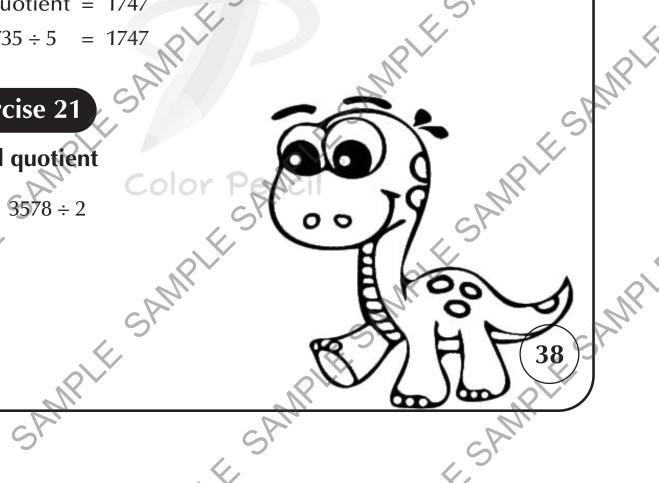
Quotient = 1747

= 1747 $8735 \div 5$

Exercise 21

Find quotient

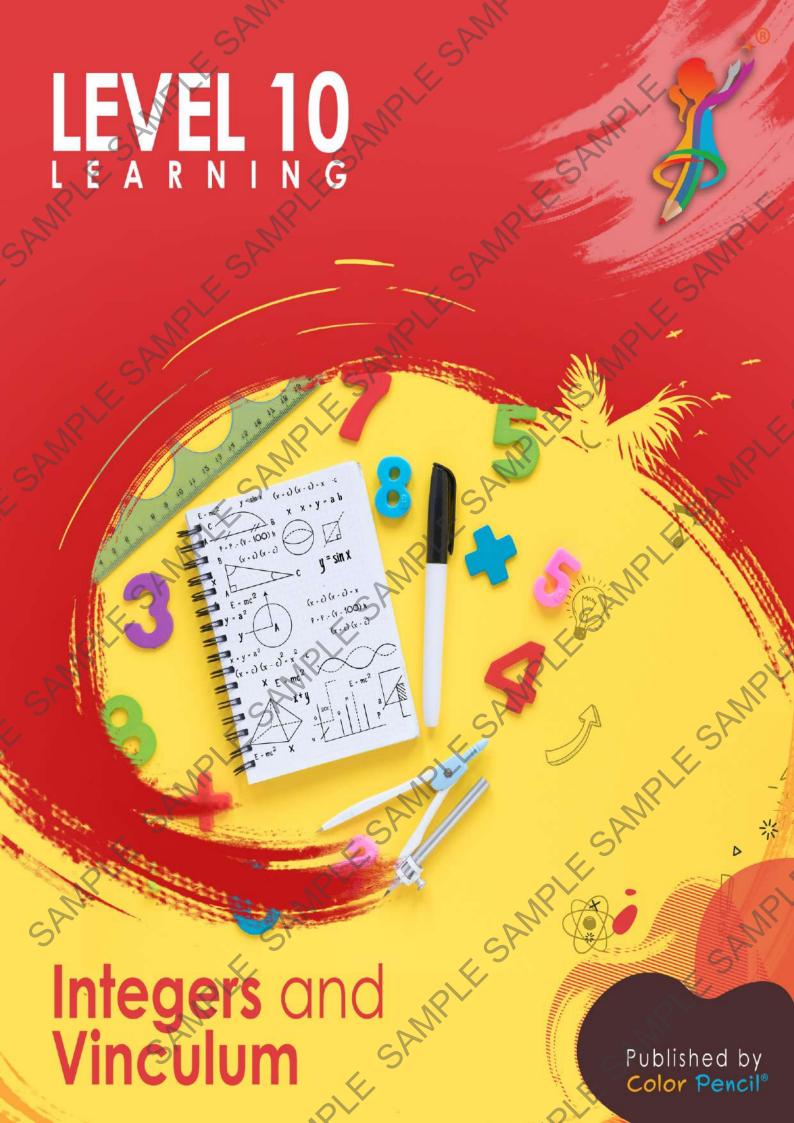
1) 3578 ÷ 2





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Divisibility check for 2, 3, 4, 5, 6, 8, 9 and 10 Explanation:

PIESAM

Divisibility check for 2 - The number ends with 0, 2, 4, 6 or 8

Divisibility check for 3 - Digit sum is 3, 6 or 9

Divisibility check for 4 - Divide last two digits by 2 two times

or divide by 4 once, or end with

two zeros

Divisibility check for 5 - The number ends with 0 or 5

Divisibility check for 6 - $6 = 2 \times 3$, it should satisfy divisibility

check for 2 and 3

E SAMI

Divisibility check for 8 V Divide last three digits by 2 three

times or divide by 8 once or end

with three zeros

Divisibility check for 9 - Digit sum is 9

Divisibility check for 10 - The number ends with 0

Exercise 6

Check divisibility for 2, 3, 4, 5, 6, 8, 9 and 10, write Yes if the number is divisible or No if the number is not divisible

	V					-			
S.No.	Number	2	3	4	56	6	8	9	10
1	24			ò					
2	35	olo	r P	SME	il				
3	66		1,6					, A	
4	81	.0							
5	96					N			



-AMPIL SHIVI WHITE SAMI' LCM and HCF of multiples

Explanation: This is a special method or shortcut method to find LCM and HCF. If the given numbers are multiples, the bigger number is a multiple of the smaller number, then LCM is the

SAM

SY	numbe	r is a multiple	e of the smaller numb	oer, then LCM is the	
	biggerr	number and H	CF is the smaller numl	ber.	
	Examp	le: Find LC <i>N</i>	1 and HCF of 74 and 3	7 SUP	
	74 is a r	nultiple of 37,	so LCM is 74 and HC	F is 37	
				IPLI	
5	Exercis	e 12 5	SP	SP	
·	Find LC	M and HCF o	of multiples	A RILL	
	S.No.	Numbers	^C PCM	CHCF	
2	1	4, 16	R	RIV	
SY	2	27, 9	SP		
	3	80, 10	R		
	4 5	11, 99	olor Pentell	CAM	
	5	<i>7</i> 5, 15	.014		
SP		SP			MP
		MPLE S.	ANRIE S	(18)	3/
	5		6	SA	



Descending order

SAMPLESAMI SAMPLE SAMPLE **Explanation**: Descending order is arranging numbers from big

to small.

Example:

39	22	71	65
65	22	39	71

Exercise 20

Arrange in descending order

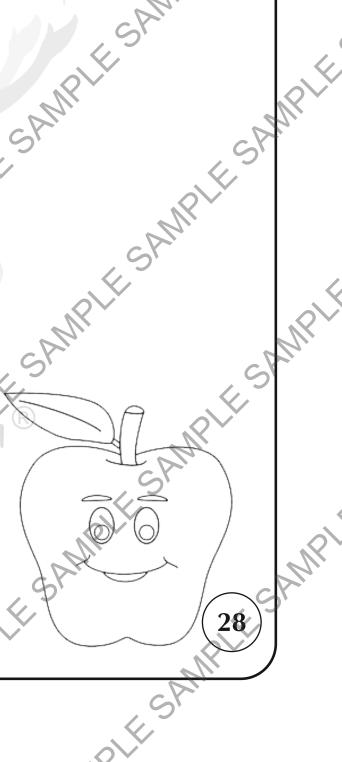
1)	14	17	8
			"BI

2)	21	15	$\overline{26}$	18	
			8//		

3)	83	46	29	31
	.01	V		

4)	<u>12</u>	1 9	7 32
			10/1

5)	46	315	<u>52</u>	17			
	.0			Ô			



Vinculum

APIE SHIWI

Explanation: Vinculum numbers are partial negative numbers. In vinculum numbers, we can reduce the number into smaller size so that we can make the calculations fast. In this method, we convert 6, 7, 8 and 9 into negative numbers. If 6, 7, 8 or 9 at the first digit, we can increase or decrease it, but we can't change the sign. If number of digits are more, we can split the numbers to convert into vinculum numbers.

LE SAMI

To convert to vinculum numbers, increase the digit before the bigger digit by 1 and write a pair of the bigger digit with bar to 489
489 is close to 500 and is 11 less than 500. $489 = 5\overline{11}$ 192 192 192 193 194 195 196 197 198 198 199 represent negative digit. If more than one digit is big, apply "All

$$69 = 7\overline{1}$$

$$489 = 5\overline{11}$$

write 59 as $6\overline{1}$, and write 2 as it is.

$$592 = 6\overline{1}2$$

538

538 is close to 540 and 2 less than 540.

$$538 = 54\overline{2}$$







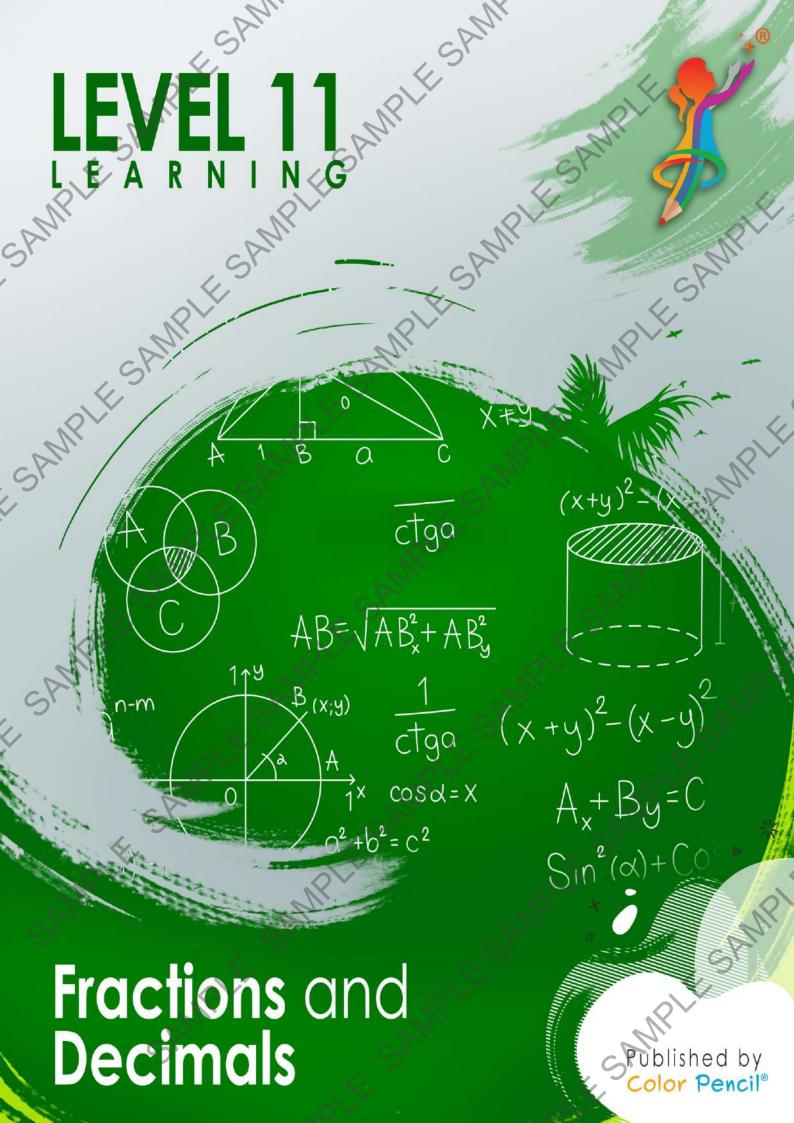


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1)
$$\frac{1}{2}$$
, $\frac{1}{3}$, $\frac{1}{4}$

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

Exercise 6

Circle the bigger fraction

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

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

Circle the bigger fraction

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

Circle the bigger fraction

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

Circle the bigger fraction

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

Circle the bigger fraction

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

Circle the bigger fraction

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

Circle the bigger fraction

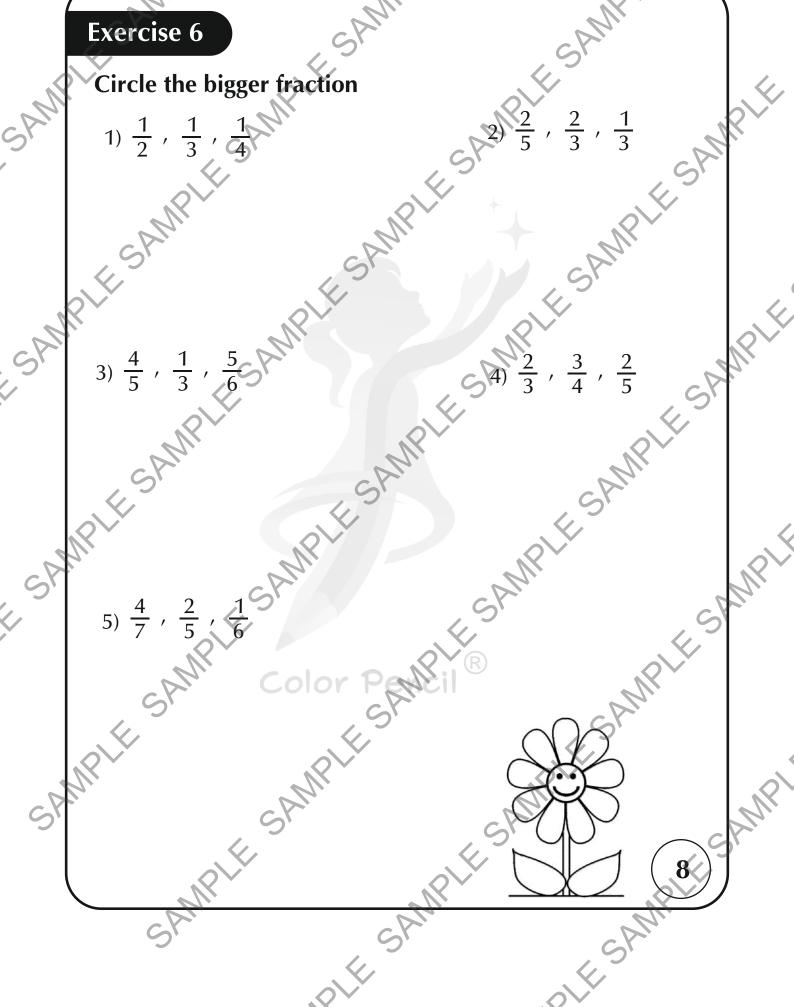
3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{6}$

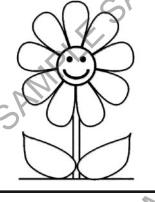
Circle the bigger fraction

(4)
$$\frac{2}{3}$$
 , $\frac{3}{4}$, $\frac{2}{5}$

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

3) $\frac{4}{5}$, $\frac{1}{3}$, $\frac{5}{16}$ Annual Sannual Sa





PIE SKINI RESAMI Fraction addition with same denominators

Explanation: To add fractions with same denominator, add SAMPLESAMPLE numerators and write with the same denominator. Simplify the Example: $\frac{6}{7} + \frac{4}{7}$ $\frac{6}{7} + \frac{4}{7} = \frac{6+4}{7} = \frac{10}{7}$ $\frac{10}{7}$ is an improper fraction, convert into mixed fraction.

Divide 10 by 7 gives quotient 1 and the remaindence. answer if possible and write the answer in proper or mixed

Example:
$$\frac{6}{7} + \frac{4}{7}$$

SAM

$$\frac{6}{7} + \frac{4}{7} = \frac{6+4}{7} = \frac{10}{7}$$

$$\frac{10}{7} = 1 \frac{3}{7}$$

$$\frac{6}{7} + \frac{4}{7} = 1 \frac{3}{7}$$

Exercise 13

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

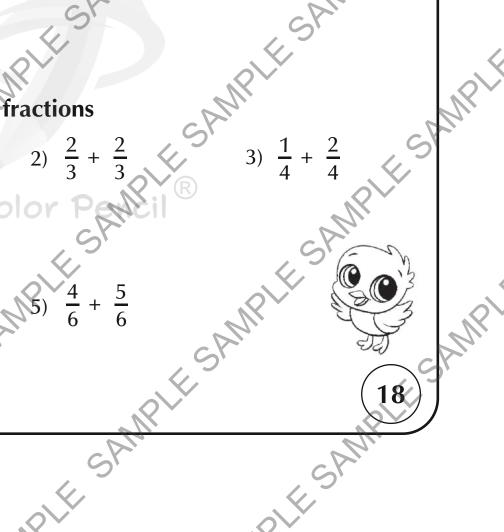
1)
$$\frac{1}{2} + \frac{1}{2}$$

2)
$$\frac{2}{3} + \frac{2}{3}$$

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

4)
$$\frac{4}{5} + \frac{3}{5}$$

$$\frac{4}{6} + \frac{5}{6}$$



MIKSHIN RIESANII Addition of whole number and fraction

Explanation: Addition of whole number and fraction is same as SAMP conversion of mixed number into improper fraction. Multiply the denominator with the whole number and add to the numerator, this is the numerator of the answer and write with the same denominator of the fraction.

Example: $6 + \frac{5}{7}$ $6 \times 7 + 5 = 42 + 5 = 47$ $6 + \frac{5}{7} = \frac{47}{7}$ Exercise 20 denominator with the whole number and add to the numerator, -5 = 47 $-\frac{47}{7}$ Exercise 20
Add where

$$6 \times 7 + 5 = 42 + 5 = 47$$

$$6 \times 7 + 5 = 42 + 5 = 47$$

$$6 + \frac{5}{7} = \frac{47}{7}$$

SAA

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

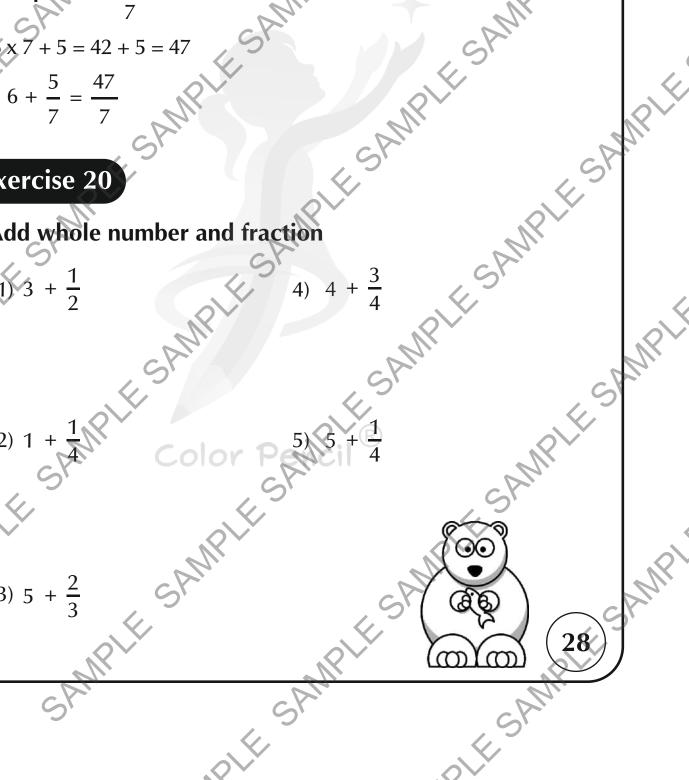
1) 3 +
$$\frac{1}{2}$$

4) 4 +
$$\frac{3}{4}$$

2) 1 +
$$\frac{1}{4}$$

5)
$$5 + \frac{1}{4}$$

3) 5 +
$$\frac{2}{3}$$



PLESPIN **Decimal standard form**

MRLE SAMI Explanation: Powers of ten in the denominator represent the in the denominator represents the number is in tenths place. $\frac{5}{10} = 0.5$ $\frac{2}{00}$ 10 in the denominator represents the number is in tenths place. number is after the decimal point. 10 in the denominator

$$\frac{5}{10} = 0.5$$

$$\frac{2}{100}$$

100 in the denominator represents the number is in hundredths place and put 0 for missing (tenth) places

$$\frac{2}{100} = 0.02$$

Exercise 29

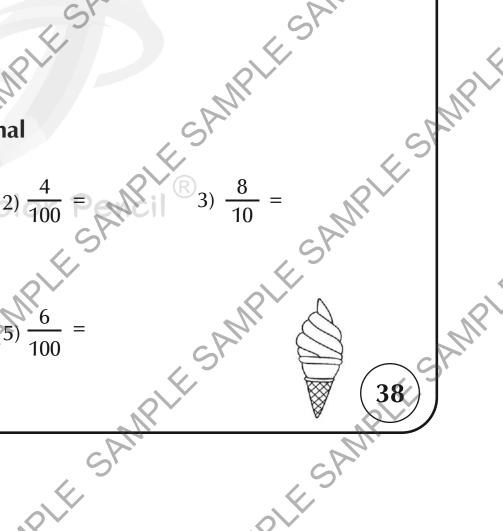
1)
$$\frac{3}{10}$$

2)
$$\frac{4}{100}$$

$$\frac{8}{10} =$$

4)
$$\frac{7}{100}$$
 =

$$5) \frac{6}{100} =$$







































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LEVEL 12 LEARNING





Percentages and Measurement

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PLESHIN Halving in division

ANRIE SAMI **Explanation:** Divide by 2 is nothing but half of the number and AMPLE SAMPLE SAM divide by 4 is nothing but half the number twice. SAMPLE SAMPI

Example: Do division using halving

$$776 \div 2$$

SAM

Halving of
$$776 = 388$$

$$776 \div 2 = 388$$

$$3532 \div 4$$

$$3532 \div 4 = 883$$

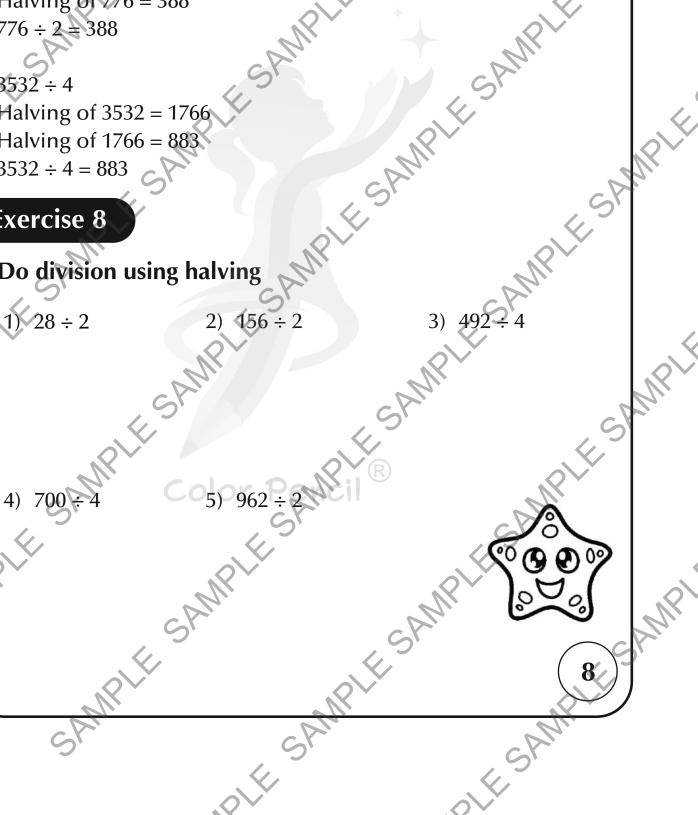
Exercise 8

4) 700 ÷ 4

1)
$$28 \div 2$$

2)
$$156 \div 2$$

5)
$$962 \div 2$$



$$1 \text{ kg} = 1000 \text{ g}$$

SANK

F) Kilo units to metric units

1 km = 1000 m

1 kg = 1000 g

1 kl = 1000 l

Example: Convert 9.4 kg into grams

9.4 x 1000 = 9400

9.4 kg = 9400 g «g into grams

Acercise 13F

Convert into metric units

1) 4 km

2) 3 7 G) Yards to feet
1 yard = 3 feet
Example: Convert 31 younto feet
31 x 3 = 93
31 yd = 93 ft

Exercise 13G
Convert into f
1 4 yd

Olor Panelle Sample Sam 3) 15 ya Mirit Shiri Land Line Shiri Land Line

1) 4 yd

MILESHIN Measurement addition

ANRIE SAMI SAMPLE SA **Explanation:** To add any two quantities, it must be in the same unit. First convert into same unit (convert to smaller unit is easier than convert to bigger unit), add, and write the answer with unit.

5500 3000 + 5500 = 8500 3000 mm + 5.5 m = 8500 mm

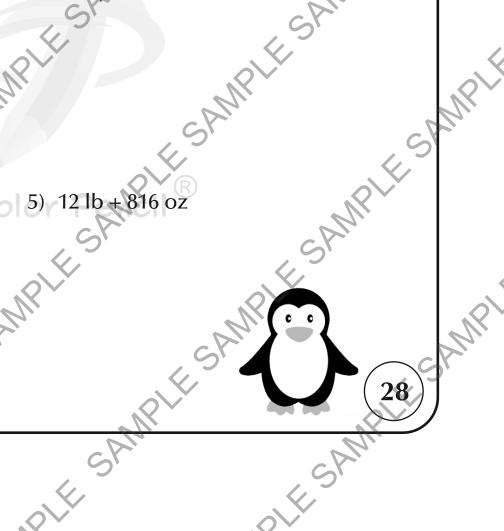
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Exercise 16 GAMP

Convert into same unit and do addition

- 1) 3 hrs + 300 min
- 2) 6 day + 48 hrs
- ars 3) 30 cm + 80 mm
- 4) 4 kg + 5000 gm 5° gm 5) 12 lb + 816 oz



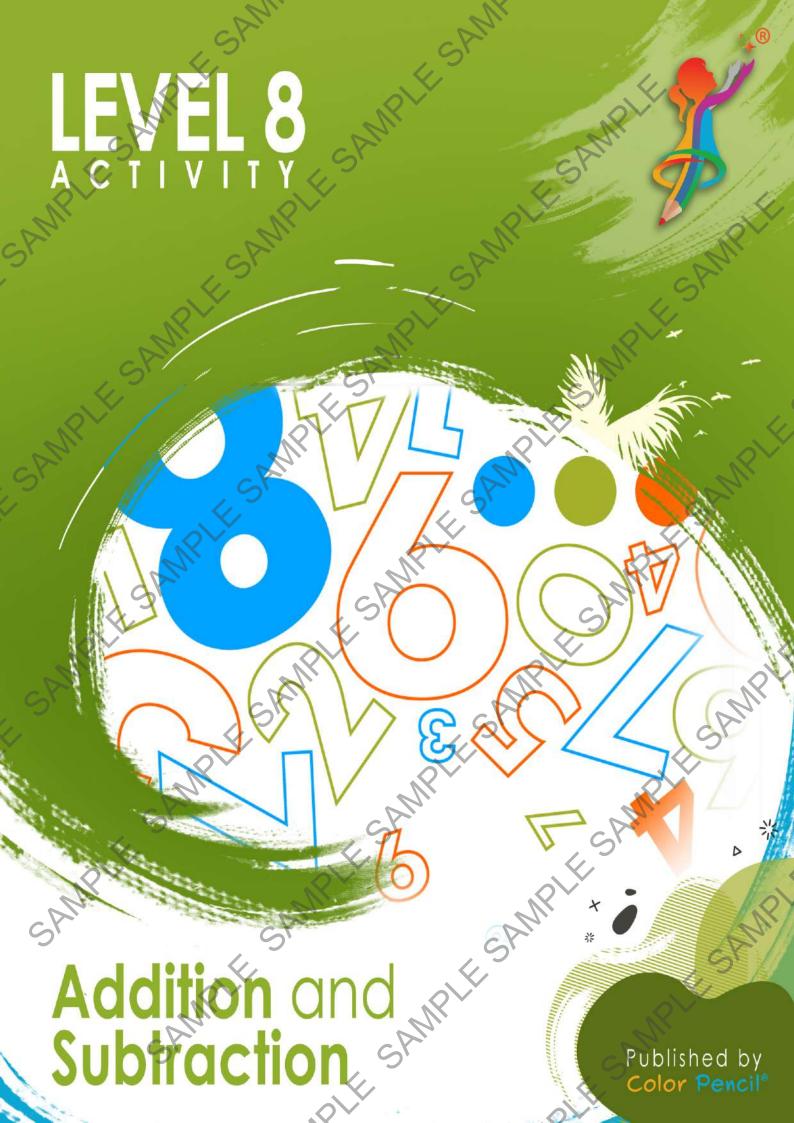
-2 cm ANIP 4)
-2 cm ANIP 4)
-5' 3 m h = 62 mSAMPLE SAMPLE SA 38 CANIPA SAIR



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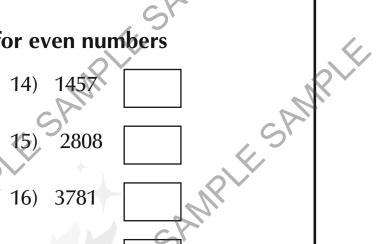
Exercise 6 Write O for odd numbers and E for even numbers

- 68

- 103
- SAMPLE SAMP 211
- ×. 378 6)

- 617
- 10) 758

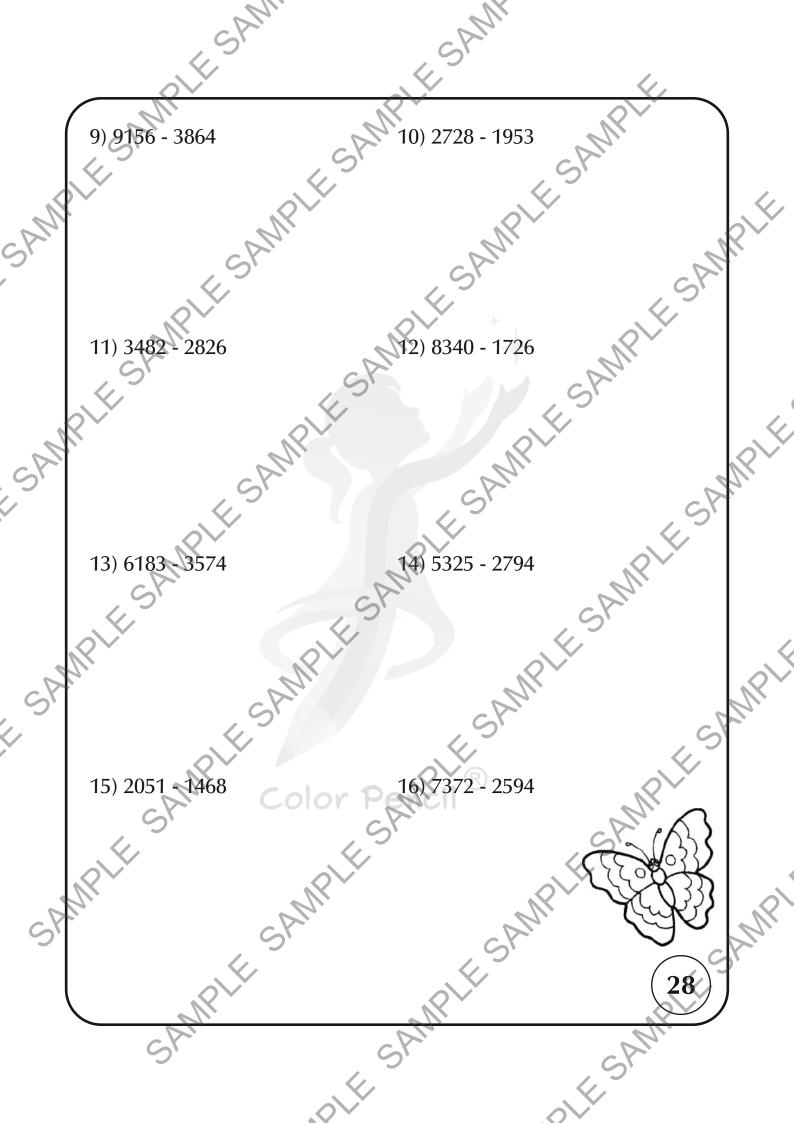
- 13) 1000



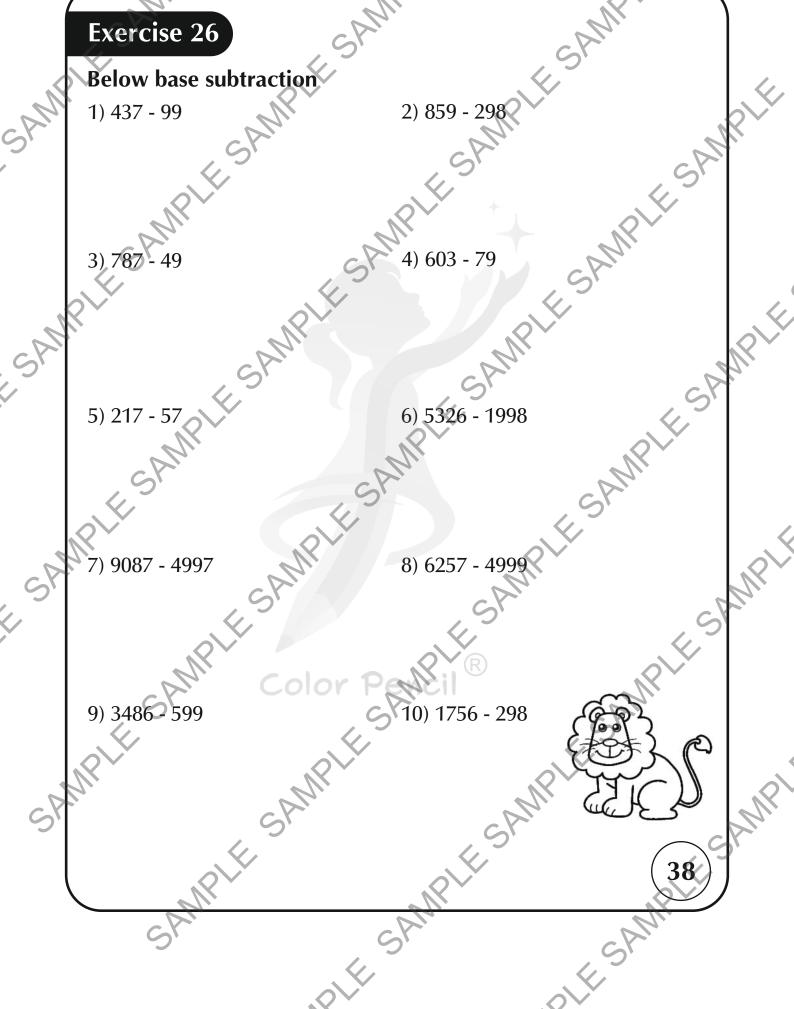
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- 17) 4090
- 18) 5577
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- 7111
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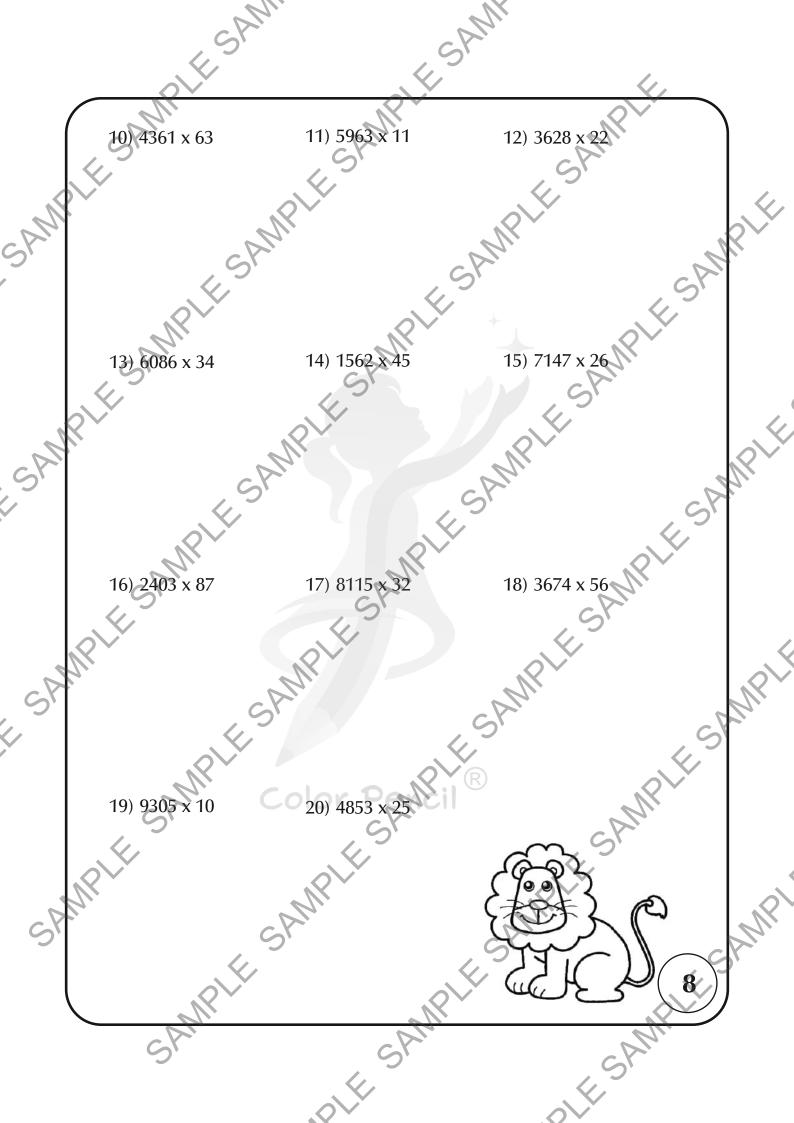
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MIKSHINI **Exercise 11**

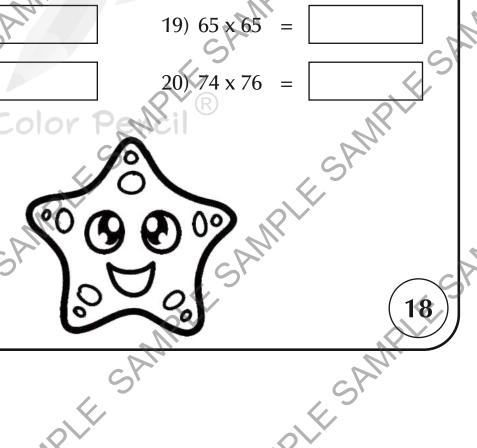
SRA

SAMPLE Multiply – Same tens and pairs in units

3)
$$36 \times 34 =$$

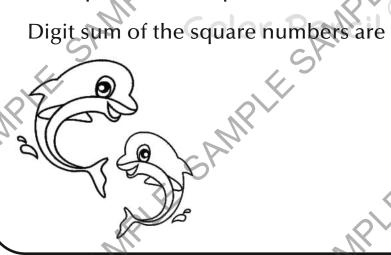
$$9) \quad 15 \times 15 = 3$$

$$10) \quad 27 \times 23 = 3$$



SAN

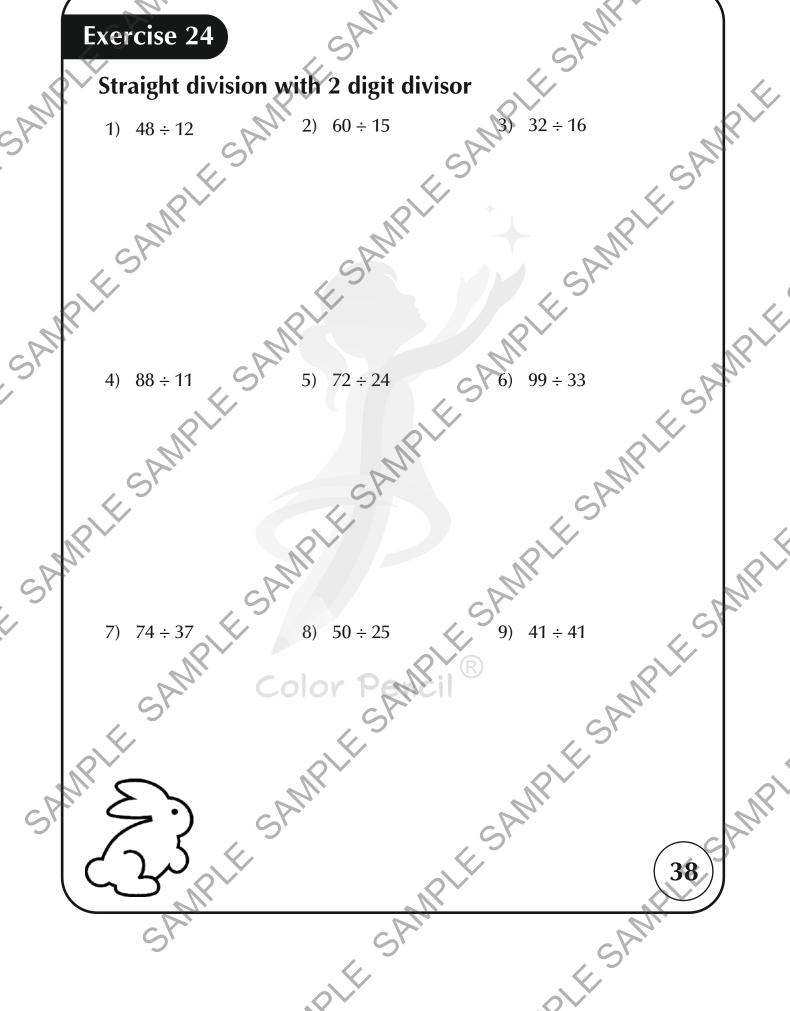
		CAN		Call					
		SAM		ESAM					
		3							
	S. No	Numbers	Square	Digit sum	Units place])			
	16	16 ²			<				
SAMP	17	17 ²		ANK	•	- WE			
	18	18 ²		(5)		SAM			
	19	19 ²		8,					
	20	20 ²	451		SA				
CONK	21	21 ²	NP.		2	RIF			
SAI	22	22 ²		SAI		SPAN			
	23	232		PLL	١٥١				
	24	24 ²	SP		SAM	-			
	25	25 ²							
SA	Obser	vation, S		SA					
	Observation Units place of the square numbers are								
	Digit s	um of the s	quare numb	ers are	MPLESAM	~			
GRAN	3	Q	MPLES.		(45)				
			RAIL			al?			
		1 and	O'	, K, S,		28			
			,	CURL					
	5	Y	6		SAI	•			



araight division with 2 digit divisor 1) 48 ÷ 12 2) 60 ÷ 15 SANIFILE SANIF The sample sampl

5)
$$72 \div 24$$

8)
$$50 \div 25$$





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ISBN: Hardback: 978-1-63649-448-7

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Exercise 6

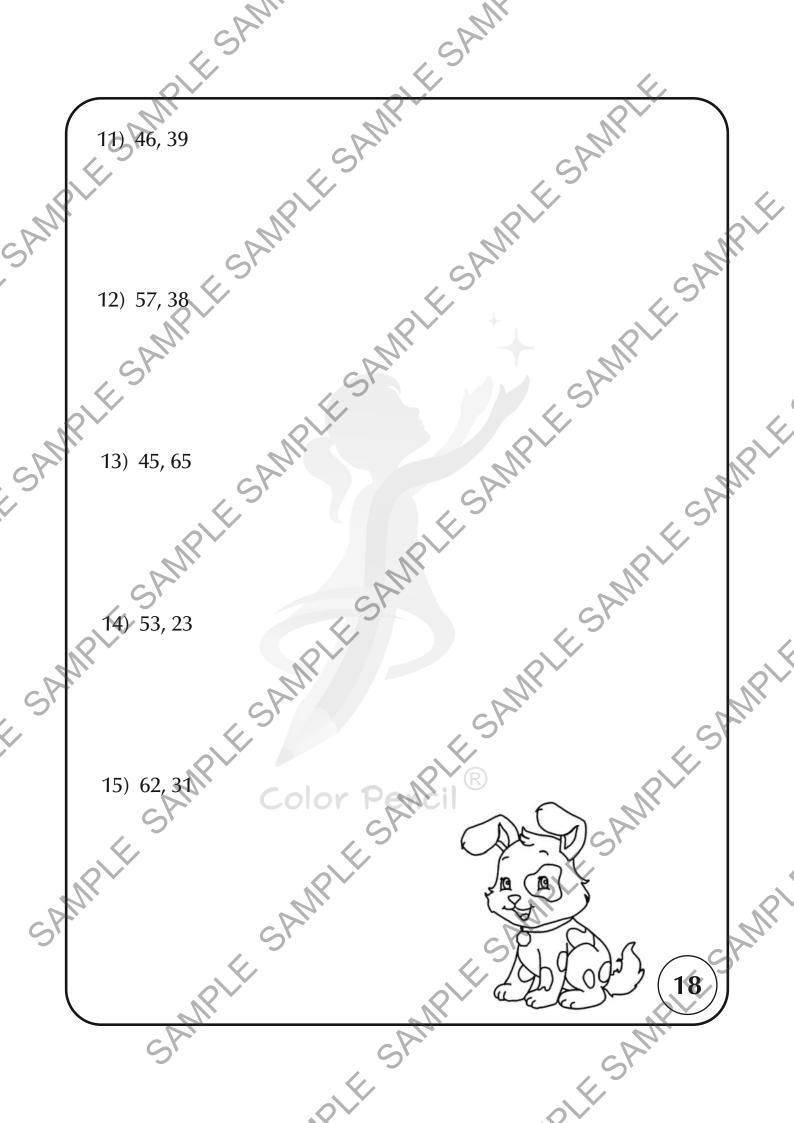
MIKSHINI

SAMPLE SAMIN Check divisibility for 2, 3, 4, 5, 6, 8, 9 and 10, write Yes if the number is divisible or No if the number is not divisible

S.No.	Number	2	3	4	5	6	8	9	10			
1	24			4.	D '				,5			
2	35				+	L						
3	66		DIN					UK				
4	81	1, 6	5,				SY					
5	96			В								
6	101					W.						
7	273				SP				C			
8	640								4			
9	911			8				NP.				
105	720		SPI					70,				
11	896						4,5					
12	999	3 \ _				,01						
13	1133	<u> 4</u> //			7	Un.						
14	3465			<	,5							
15	4180				(R)							
16	5103 Co	or	PE	416II								
17	5335		5				C					
18	6180	0/										
19	8316						•					
20	7272				C							

SAMP!

8



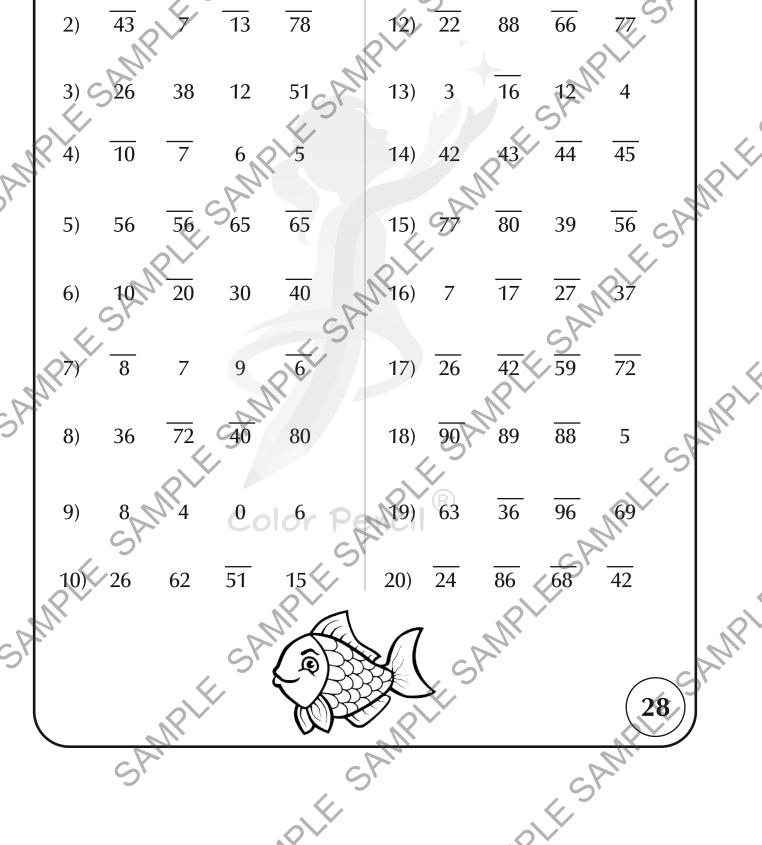
- Circle the smaller number

 1) $14 \overline{36} 81 \overline{12}$ 1

 2) $\overline{43}$ 7 $\overline{13}$ 7

 3) $26 3^{9}$ 11) 30 20 10 4012 51 13 7 6 5 56 56 65

 - 40
 88 66 77
 13) 3 16 12 4
 14) 42 43 44 45
 15) 77 80 39
 16) 7



SILSAN

2)
$$\overline{6}$$
 x 3 =

$$3) 2 \times \overline{8} =$$

4)
$$\overline{5}$$
 x $\overline{4}$ =

6)
$$6 \times 8 =$$

11)
$$10 \times \overline{2} =$$

11)
$$\overline{10} \times \overline{2} = \boxed{ }$$

12) $\overline{3} \times 9 = \boxed{ }$

13) $4 \times \overline{7} = \boxed{ }$

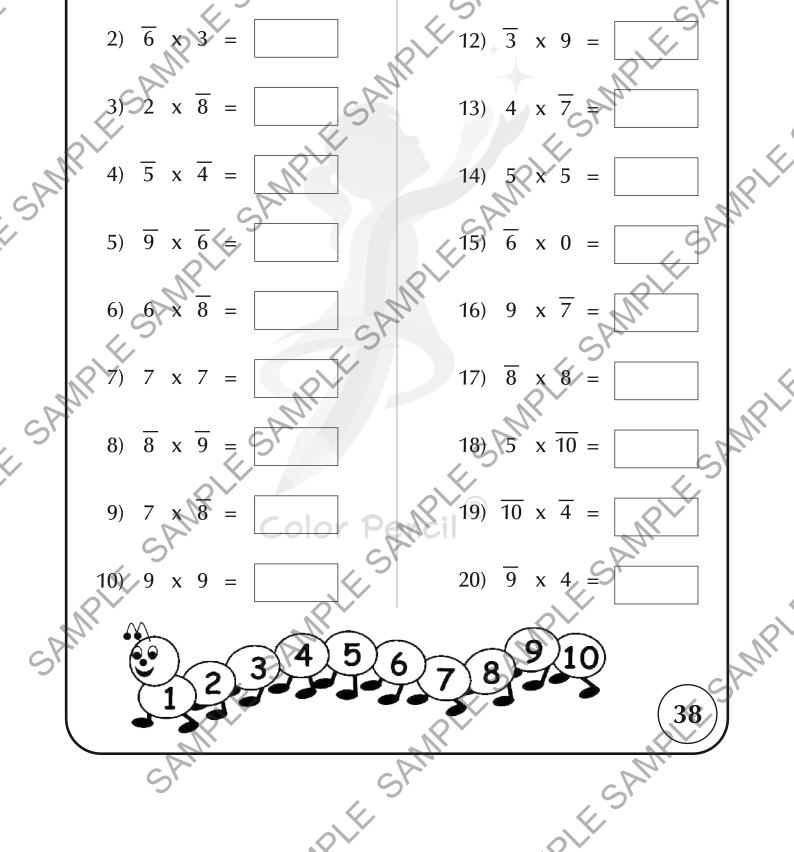
14) $5 \times 5 = \boxed{ }$

$$15) \overline{6} \times 0 = \boxed{}$$

16) 9 x
$$\overline{7}$$
 =

18)
$$5 \times \overline{10} =$$

$$\overline{19}$$
) $\overline{10}$ x $\overline{4}$ =

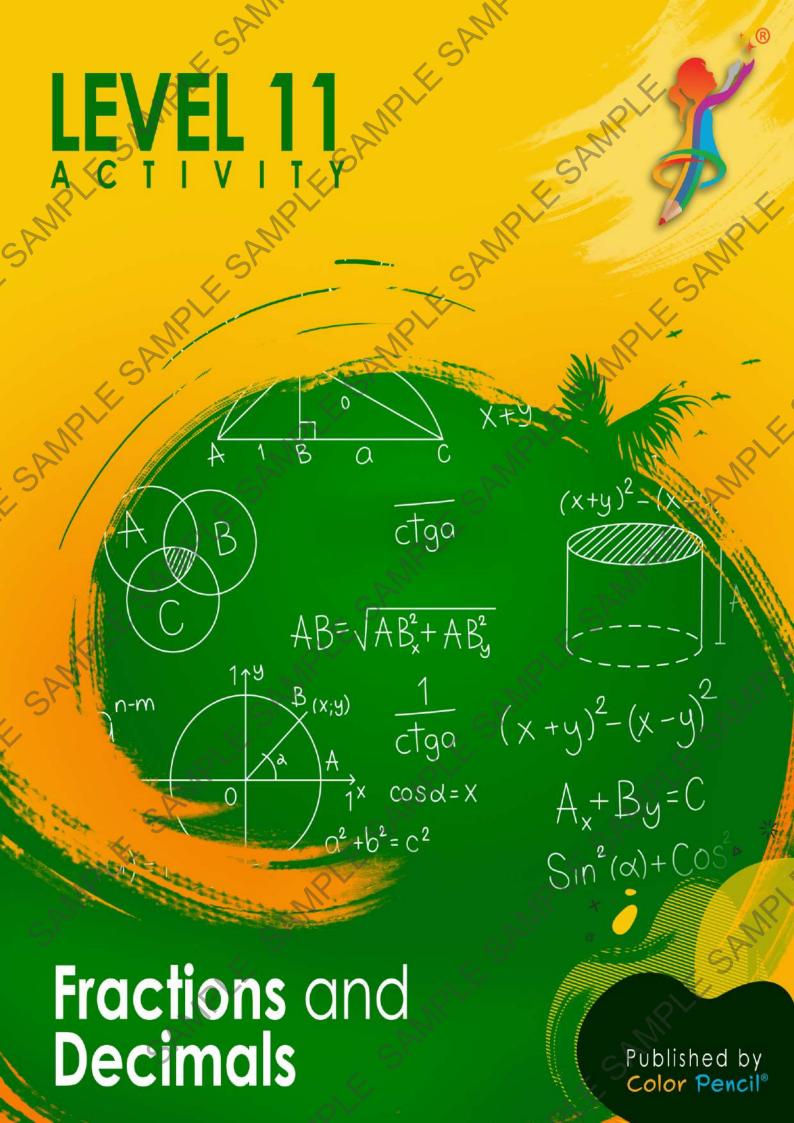




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11)
$$\frac{2}{9}$$
, $\frac{1}{2}$, $\frac{3}{7}$

2)
$$\frac{6}{8}$$
, $\frac{5}{9}$, $\frac{2}{7}$

13)
$$\frac{1}{8}$$
, $\frac{2}{3}$, $\frac{5}{7}$

14)
$$\frac{3}{9}$$
, $\frac{4}{5}$, $\frac{4}{7}$

15)
$$\frac{1}{2}$$
, $\frac{2}{9}$, $\frac{3}{8}$

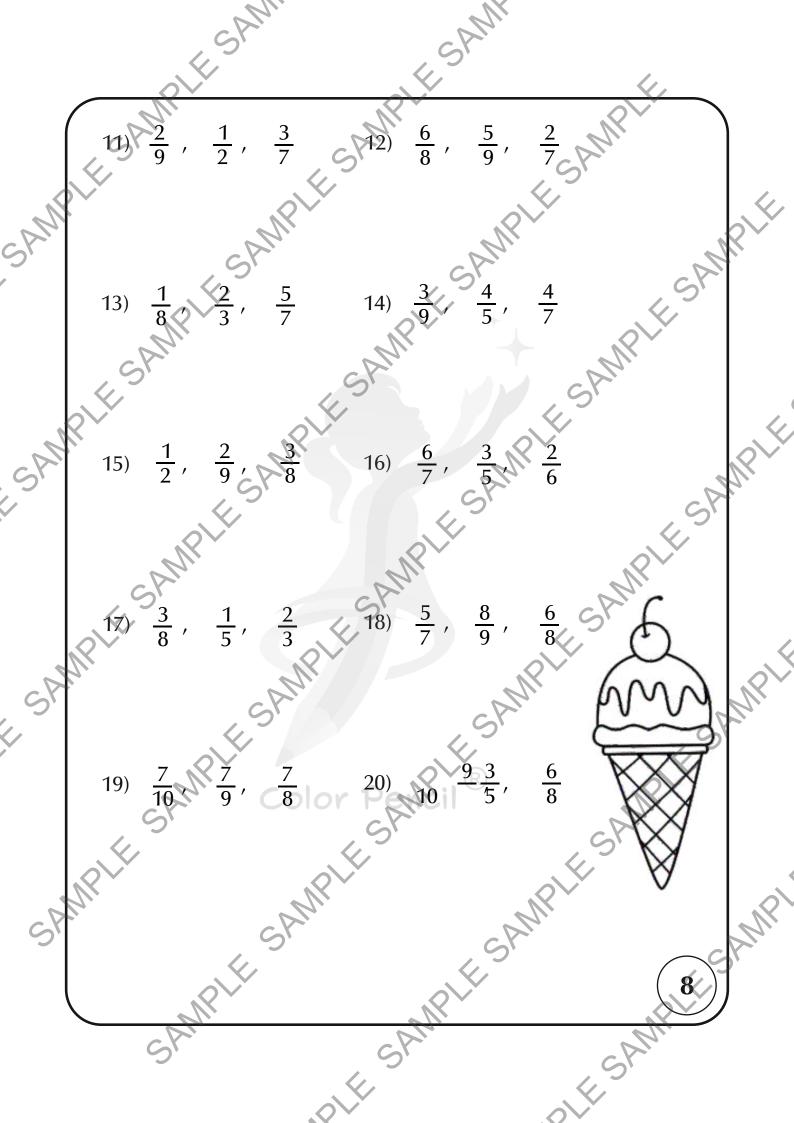
16)
$$\frac{6}{7}$$
, $\frac{3}{5}$, $\frac{2}{6}$

$$\frac{3}{8}$$
, $\frac{1}{5}$, $\frac{2}{3}$

18)
$$\frac{5}{7}$$
, $\frac{8}{9}$, $\frac{6}{8}$

19)
$$\frac{7}{10}$$
, $\frac{7}{9}$, $\frac{7}{8}$

20)
$$10^{-9} \frac{3}{5}$$
, $\frac{6}{8}$



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

11)
$$\frac{12}{12} =$$

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

12)
$$\frac{15}{1}$$
 =

3)
$$\frac{0}{5}$$
 =

13)
$$\frac{7}{7} =$$

4)
$$\frac{8}{8}$$
 =

14)
$$\frac{17}{0}$$
 =

5)
$$\frac{9}{0}$$

15)
$$\frac{21}{1}$$

6)
$$\frac{10}{1}$$
 =

$$16) \frac{0}{25} =$$

$$\frac{6}{6} =$$

17)
$$\frac{19}{19} =$$

8)
$$\frac{2}{1}$$

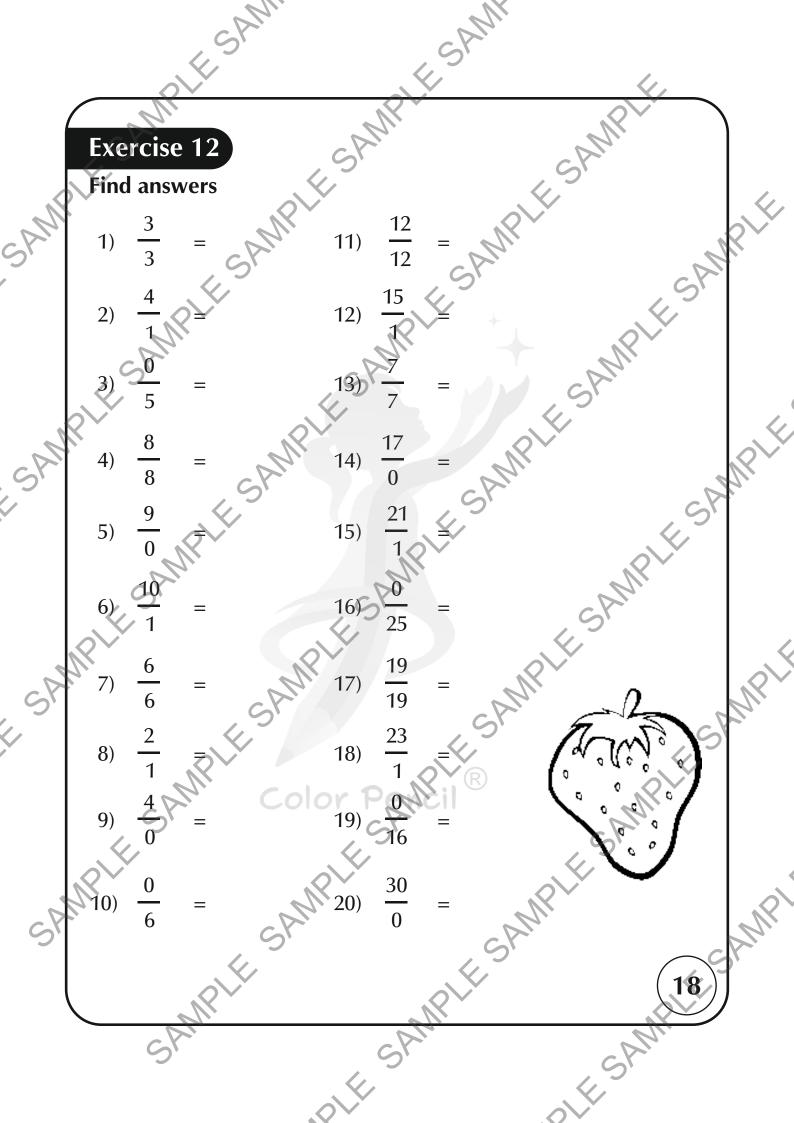
18)
$$\frac{23}{1}$$
 =

9)
$$\frac{4}{0}$$
 =

19)
$$\frac{0}{16}$$
 =

10)
$$\frac{0}{6}$$

$$\frac{30}{0} =$$



12)
$$-\frac{4}{11} = \frac{5}{11}$$

$$13) \boxed{ -\frac{6}{12} = \frac{6}{12}}$$

14)
$$\frac{7}{13} = \frac{3}{13}$$

$$15) - \frac{5}{14} = \frac{7}{14}$$

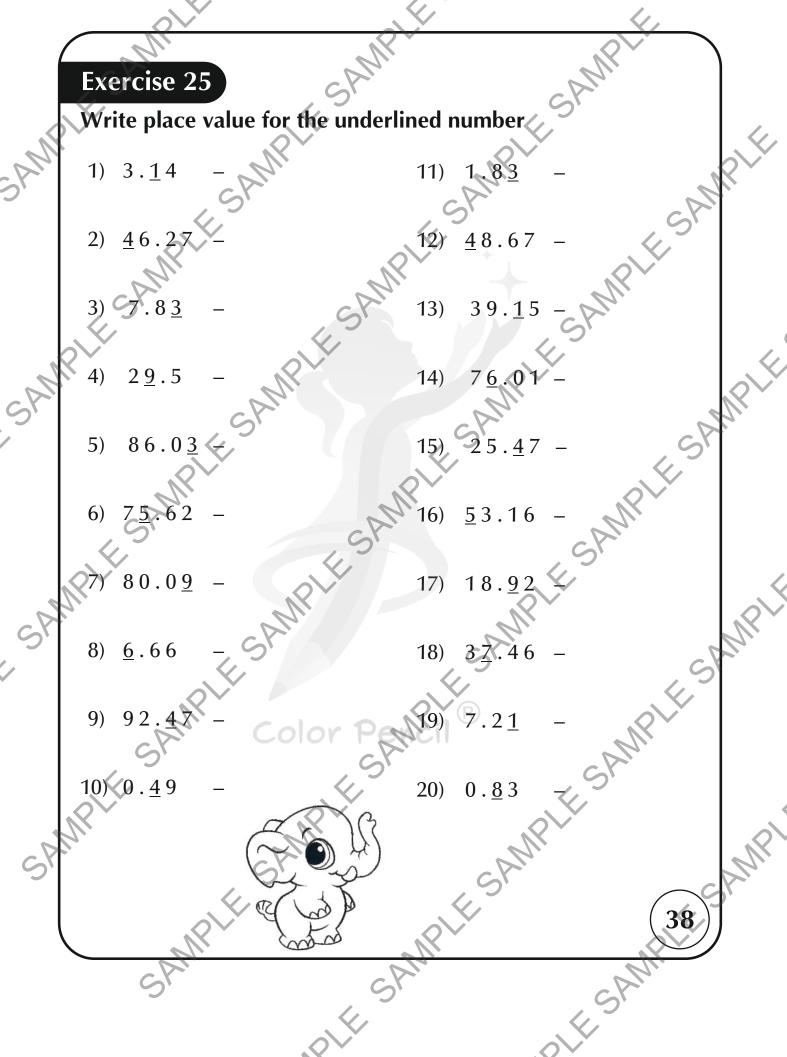
17)
$$-\frac{9}{16} = \frac{6}{16}$$

18)
$$\frac{2}{17} = \frac{15}{17}$$

$$19) - \frac{7}{18} = \frac{10}{18}$$

$$\frac{5}{19} = \frac{13}{19}$$

1) $3.\underline{1}4$ - 11) $1.8\underline{3}$ 2) $\underline{4}6.2\overline{2}$ - 12 3) $2.8\underline{3}$ - 4) $2\underline{9}.5$ 3) 86.036) 75.628) 6.66















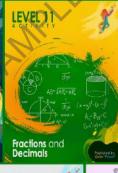
























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Do multiplication using doubling 1) 35 x 2 2) 246 x ' T) 319 x 2 8) \$55 x 4 10) 714 x 4 MILE SAMPLE S

- JX4

 9) 653×2

 COLDIN 825×2

 FILESAMPLE SAMPLE SAMP 12) 900 x 4PILE SAMPLE SAMPLE

Into minutes Shift 2) 3 hrs 2) Shift 160 1 7) 43 hrs 8) 28 hrs 10) 29 hrs. The Santh Esanth Santh Esanth Santh Esanth 9) 35 Mrs Olor Banklik Sanklik Sankli 18) SAMP!

Into hours 60 min 2' SAMP 4 66° 7) 2040 min 8) 2460 min 10) 4620 min 9) 3840 min Olor Banklik Sanklik Sank SAMP' SAME

Exercise 15

SANIFILE SANIF Put appropriate sign <, >, or =

PLE SKIMI

- 240 min 1) 6 hrs
- 11) 5 kg/P/F gm 90 yd

- 2) 240 hrs

- 12) 300 ft 13) Rs. 5.65
- 700 pa

- 1 kg 4) 750 gm
- 14) 16 lb
- 3 mm SAMPLE

12 *l*b

SAM

- 160 oz
- 15) 3000 mm

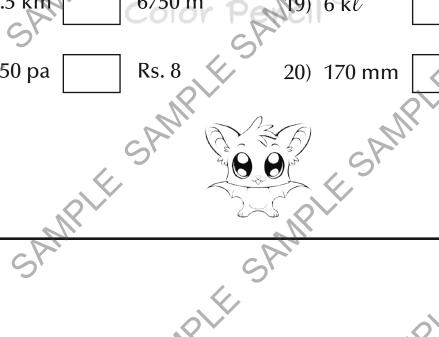
- 6) ¢ 475
- \$ 2.25
- 16) 5 hrs
- 360 min

- 4000 mm
- 17) 72 in
- 5 ft

- 8) 420 in
- 35 ft
 - 18) 5 days
- 120 hrs

- 9) 4.5 km
- - 6750 m
- 19) 6 kl
- 7250 V

- 10) 950 pa
- 20) 170 mm
- 2.5 cm





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