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What I Know about Math



1. Complete the numbers.













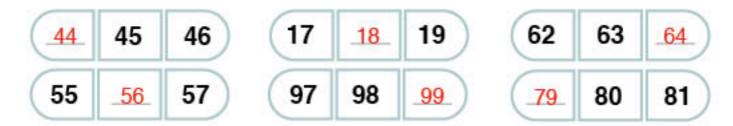




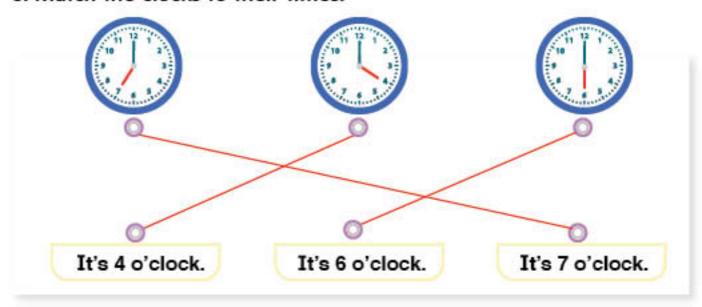




2. Write the numbers that comes before, between, or after.



3. Match the clocks to their times.



4. Complete the ordinal numbers.

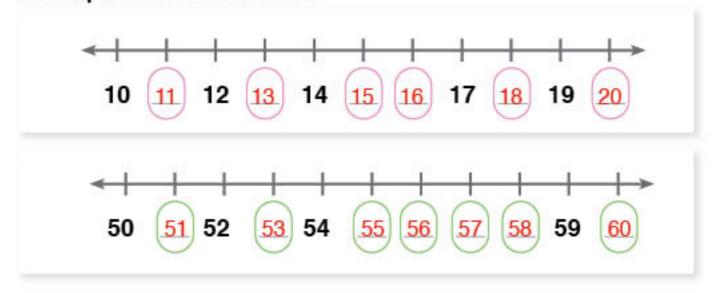
First Second Third Fourth Fifth Sixth

Seventh Eighth Ninth Tenth

5. Complete the missing days of the week.



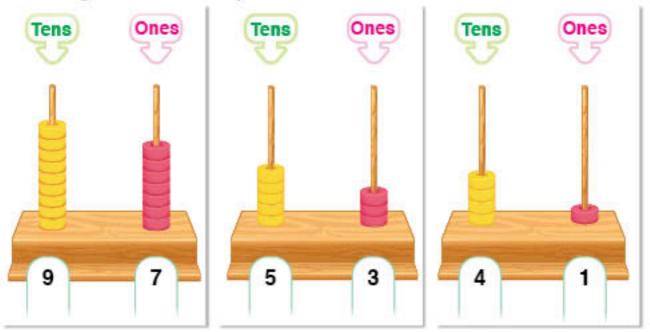
6. Complete the number lines.



7. Write the missing numbers.



Draw the beads on the abacus to represent the given numbers, following the first example.



Unit 1 3-Digit Numbers





- ones
- tens
- hundreds
- ascending order
- descending order
- even numbers
- odd numbers
- abacus

Objectives



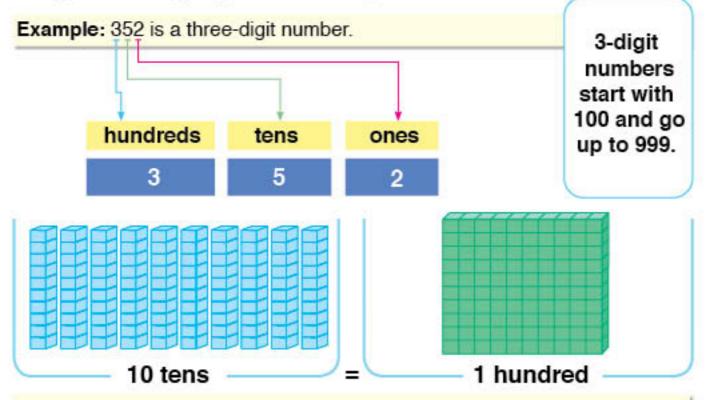
Upon completion of this unit, you will be able to:

- Count numbers with three digits.
- Read and write numbers in words up to 999.
- Compare and arrange 3-digit numbers.
- Recognize even and odd numbers.

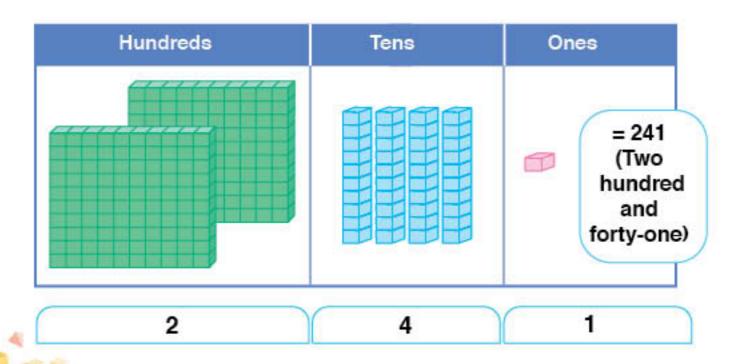
(1-1) 3-Digit Numbers

Three-digit numbers are divided into units of hundreds, tens, and ones.

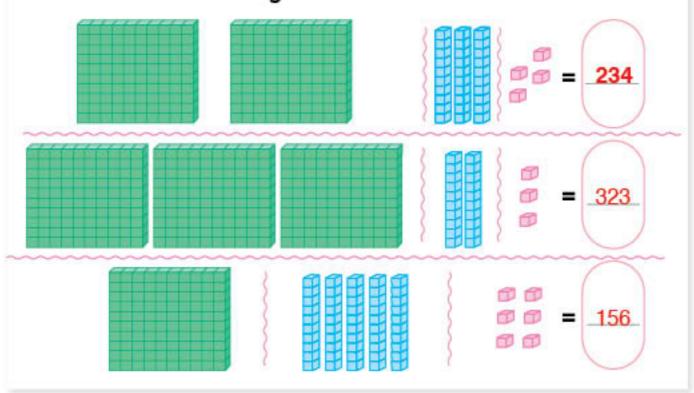
Always start analyzing from the far right.



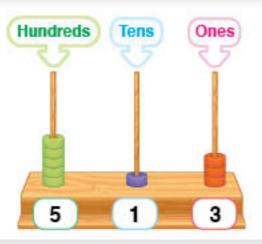
We can show the number 241 using block models.



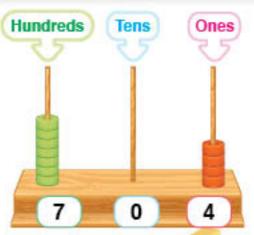
1. Count and write the 3-digit numbers.



We can draw the beads on the abacus for any 3-digit number.



Draw the beads on the abacus for the number 704.



Complete the chart, and then draw the beads on each adjacent abacus to represent the given three-digit numbers.

		255	MT9	1755	
Nun	nber	Hundreds H	Tens T	Ones O	
14	5	_1_	_4	5	
37	1	3	7	_1_	
82	3	8	_2_	3	
70	6	7	0	6	

4. Write the value of the digits that correspond to each place named.



(1−2) Numbers in Words up to 999

Look and recognize the words for the numbers in the hundreds.

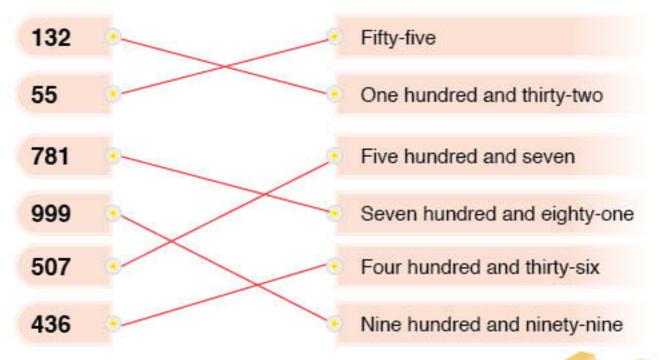
100	200	300	400	500
One	Two	Three	Four	Five
Hundred	Hundred	Hundred	Hundred	Hundred
600	700	800	900	
Six	Seven	Eight	Nine	
Hundred	Hundred	Hundred	Hundred	

How to Read Numbers

- 145: One hundred and forty-five
- 960: Nine hundred and sixty
- 713: Seven hundred and thirteen

To read 3-digit numbers, start reading numbers from left to right.

1. Match each number with the correct number word.

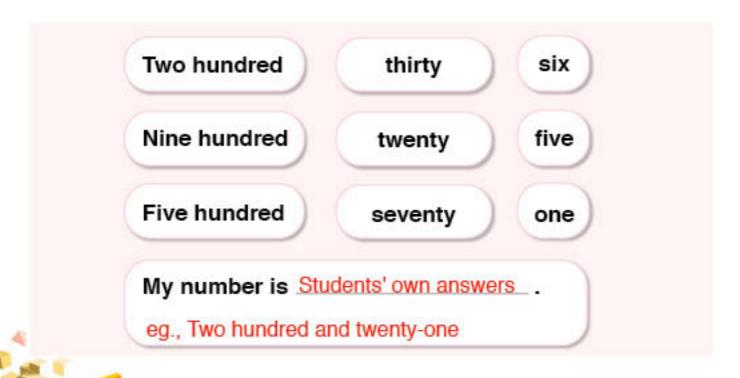




2. Circle the correct numbers.

A Two hundred and eighty-three	283 382
B Four hundred and twelve	421 412
C Six hundred and seventeen	671 617
D Nine hundred and ninety-five	995 959

Collect one number word from each column to create your own number, then write it in the box.



(1-3) Comparing Numbers



56 > 40

The symbol (>) means greater than. The symbol (<) means less than. 24 < 30

To compare numbers, first line up the digits of each number, then compare starting from the left.

Example (1): Compare 452 and 651.

Each number has 3 digits, so compare

starting from the left.

Since 4 is less than 6, 452 < 651.

Example (2): Compare 763 and 743.

Each number has 3 digits, so compare

starting from the left.

Since the hundreds are equal, move to the

tens

Since 6 is greater than 4, 763 > 743.

763 743

452

651



1. Write the correct sign (>, <, or =).

200 < 300

122 < 212

670 > 183

711 > 546

543 > 244

556 < 656

625 > 550

300 < 500

720 = 720

287 < 351

2. Circle the greatest numbers.

(413) 314 / 143)

(300/310/301)

(721) 700 / 701)

(821 / 823 / 832)

We can arrange numbers in ascending or descending order.

Ascending order means arranging numbers from the smallest to the greatest.

Descending order means arranging numbers from the greatest to the smallest.

Example (1):

Arrange 589, 958, 855, and 623 in ascending order.

The ascending order is:

500	602	055	050
589	623	855	958

Example (2):

Arrange 589, 958, 855, and 623 in descending order.

The descending order is:

0000000EA	098918757	University of	2000000
958	855	623	589
	Transport of the Control	100000000000000000000000000000000000000	1.0000000000



Your Work

1. Arrange in ascending order.

625	321	584	965
_321	_584	625	965

325	235	252	322
_235	_252	_322	325

2. Arrange in descending order.

585	978	785	654	
_978	785	654	_585	

218	475	312	865	
_865	_475	_312	_218	



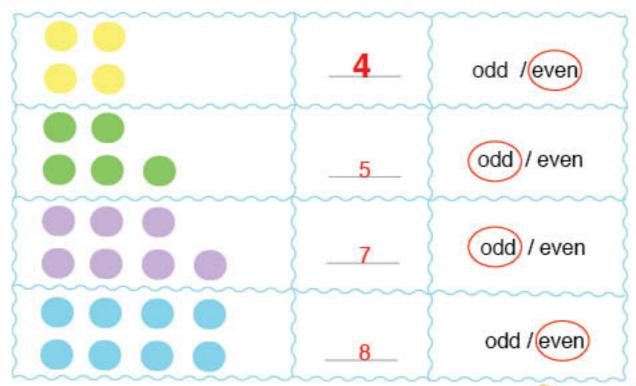
(1-4) Even and Odd Numbers

Look at the picture and recognize the even and odd numbers.

Even	Odd
0	1 •
2 🕻	3 [*
4 11	5 11 *
6 111	7 !!!
8 !!!!	9 1111

- An even number is a number that has pairs.
- An odd number is a number that can't have pairs.

1. Count the circles. Write the numbers. Circle odd or even.



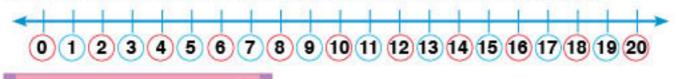
2. Circle the right answers (odd or even).

To find the answer, look at the ones digit.

We can analyze even and odd numbers by using the number line.

The odd number comes after the even number.

3. Circle even numbers with red and odd numbers with blue.



Your Work

In the circles, write the even numbers and the odd numbers less than 10.

- Even numbers:
- 0
- 2
- 4
- 6
- 8

- Odd numbers:
- 1
- 3
- 5
- 7
- 9

(1-5) Problem Solving

1.	Ammar's basketball team won the playoff this year. Their
	final score was a 3-digit number. There were 2 in the ones
	place, 5 in the tens place, and 1 in the hundreds place. What
	was their score?

152

2. Alaa and Mariam have rock collections. Alaa has 362 rocks, and Mariam has 329. Who has the greatest collection of rocks?

Alaa

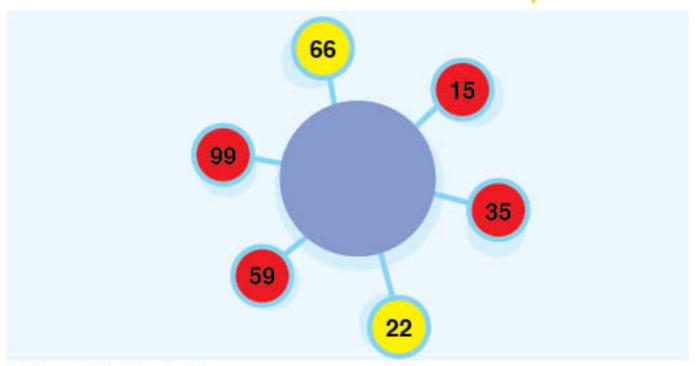
3. Lina rolled a die and got 5, 6, and 3. What is the greatest number she can have with those three digits?

653



Show Your Turn

1. Color the odd numbers red and the even numbers yellow.



2. Complete the table.

Number	Hundreds	Tens	Ones
302	_3	0	2
985	9	8	5
125	_1_	_2	5

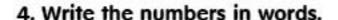
3. Write the value of the underlined numbers.

 524
 619
 850

 500
 9
 50

 137
 206
 435

 30
 200
 5



120 One hundred and twenty

300 Three hundred

921 Nine hundred and twenty-one

505 Five hundred and five

5. Write >, <, or = in the .

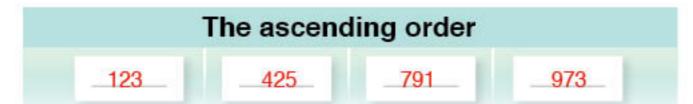


Your Work

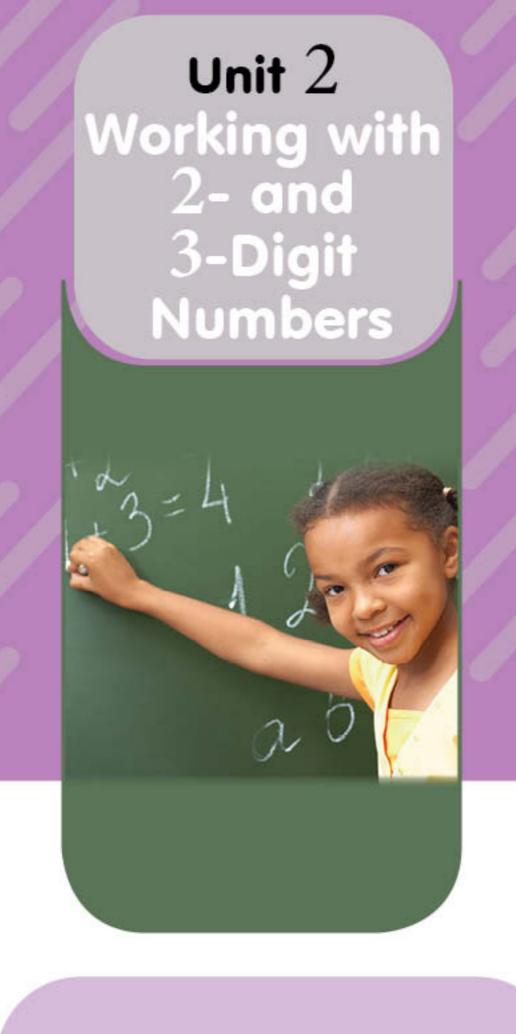
Write four 3-digit numbers, then arrange them in ascending order.

Students' own answers









Vocabulary



- add
- addition
- addend
- sum
- subtract
- subtraction
- minuend
- subtrahend
- difference
- regrouping

Objectives

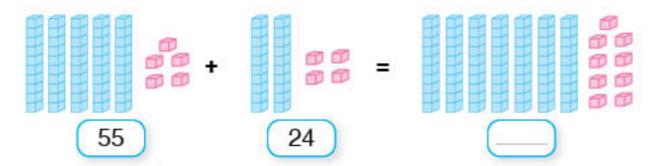


Upon completion of this unit, you will be able to:

- Add 2- and 3-digit numbers without regrouping.
- Add 2- and 3-digit numbers with regrouping.
- Subtract 2- and 3-digit numbers without regrouping.
- Subtract 2- and 3-digit numbers with regrouping.



Adding Numbers without Regrouping



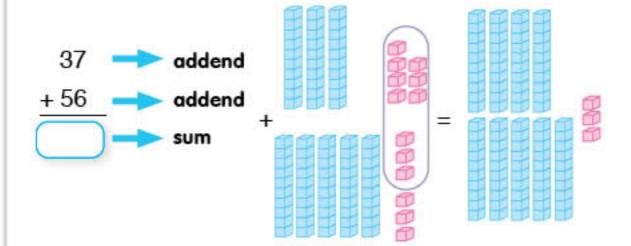
First, add the ones.

Then, add the tens.

1. Add.



Adding Numbers with Regrouping



First, add the ones.

Then, add the tens.

1. Add.

2. Add.

3. Complete the answers.

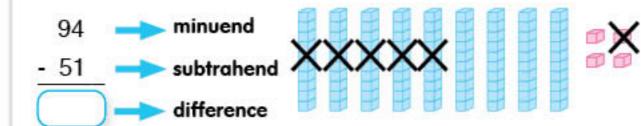
$$\bigcirc$$
 15 + \bigcirc 21 = 36

4. Write two numbers with the sum (74).

Students' own answers

eg.,
$$50+24=74$$

- (2-2) Subtracting 2-Digit Numbers
- Subtracting Numbers without Regrouping



First, subtract the ones.

94

- 51

Then, subtract the tens.

94

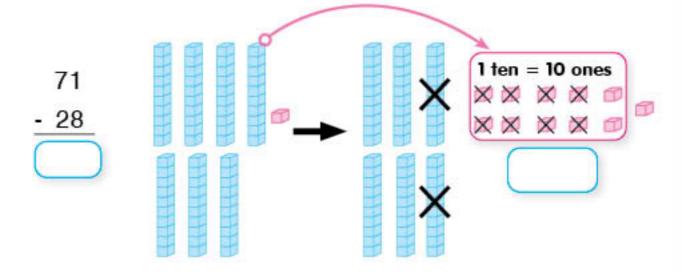
- 51

43

1. Subtract.



Subtracting Numbers with Regrouping



First, subtract the ones.

Then, subtract the tens.

1. Subtract.

2. Subtract.

Your Work

1. Write two numbers with a difference of 46.

Students' own answers

eg.,
$$84 - 38 = 46$$

2. Write two numbers with the difference of an odd number.

Students' own answers

(2-3) Adding and Subtracting 3-Digit Numbers

Adding 3-Digit Numbers

First, add the ones.

Then, add the hundreds.

Second, add the tens.

1. Add.

Subtracting 3-Digit Numbers

First, subtract the ones.

Second, subtract the tens.

Then, subtract the hundreds.

1. Subtract.

2. Add or subtract.

77	64	59	80
+ 62	<u>+ 31</u>	- 47	- 70
139	95	12	10
84	10 10 108	7,60 7,60	7.03
- 14	<u>- 72</u>	- 98	- 83
70	36	62	20
	42	37	3 × 10 400
	+ 73	+ 89	- 257
	116	126	143

(2-4) Problem Solving

- Adam read 29 pages on Saturday and 19 pages on Sunday. How many more pages did he read on Saturday?
- 19 10

2. Rita sold 117 apples, 113 oranges, and 197 pears. How many pieces of fruit did she sell altogether? 117 + 113 <u>197</u> 427

3. There are 62 elephants in the herd; 42 are female. How many males are in the herd?

- 4. Rita had 13 marbles. She gave 7 marbles to Tony. How many marbles are left?
- 13 - 7 06

5. There are 17 students present in class 6T. 13 left early for sports. How many students remain in the room?

- 13 - 04

6. Jemma had 74 coins. She spent 20 coins on a football. How many coins are left?

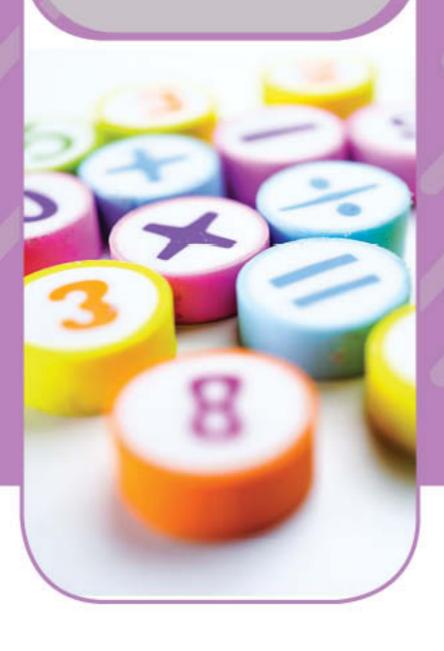
Show Your Turn

1. Add or subtract. Use the key to color the spaces.

99 - 45 54	88 - 66 22	21 + 16 37	59 - 43	
24 + 13 37	38 - 22 16	12 + 10 22	_ \/	25 - 12 - 37
- 57	68 - 31 37	11 +11 22	5 \ 5	77 23 54

- 16 Pink
- 22 Yellow
- 37 Blue
- 54 Gray

Unit 3 Multiplication and Division



Vocabulary



- multiplication
- multiply
- multiplication table
- repeated addition
- multiplier
- multiplicand
- product
- division
- divide
- divisor
- dividend
- quotient
- division sentence





Upon completion of this unit, you will be able to:

- Explain the relationship between multiplication and addition.
- Practice multiplication facts up to 5×10.
- Explain the relationship between division and multiplication.
- Define dividend, divisor, and quotient.
- Perform simple division exercises.

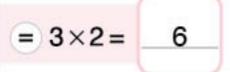


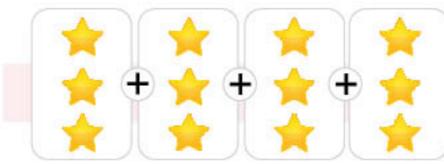
(3-1) Understanding Multiplication Learn:

- 3→multiplier
- 2→multiplicand
- 6→product



Multiplication is a repeated addition.





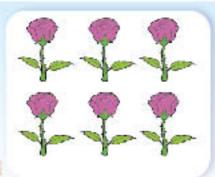
1. Count and write the numbers.

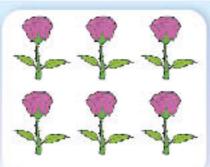


$$5 + 5 + 5 + 5 = 20$$



Or
$$4 \times 5 = 20$$





Or $2 \times 6 = 12$

2. Match.



$$4 \times 3 = 12$$

$$2 \times 5 = 10$$



$$4 \times 4 = 16$$



$$1 \times 5 = 5$$



$$2 \times 3 = 6$$

3. Use the number lines to find each multiplication's product.

 $3 \times 4 =$

 $5 \times 5 =$

8





$$4 \times 3 = 12$$





12



4. Multiply.

30

20

Your Work

1. Draw the story for (3 x 9).

$$9 + 9 + 9 = 27$$

2. What is the difference between 4×2 and 2×4 ?

\bigcirc (3-2) Multiplication up to 5×10

We can memorize the multiplication facts for any number by studying the multiplication table.

Multiplication Table

X	U	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50

 $\frac{4}{x - 7}$ Find the 4th row.
Find the 7th column.
The product

1. Circle the right answers.

) 6

$$3\times8=$$

13 24

32

$$5 \times 7 =$$

35

30

2. Fill in the blanks.

$$4 \times 5 = 20$$

$$3 \times 10 = 30$$

$$3 \times 9 = 27$$

$$2 \times 4 = 8$$

3. Complete the multiplication table.

×1	\times 2	X	3	X	4	×.	5
1×1= (1)	1×2= 2	1×3=	3	1×4=	4	1×5=	5
2×1= 2	2×2= 4	2×3=	6	2×4=	8	2×5=	10
3×1= 3	3×2= 6	3×3=	9	3×4=	12	3×5=	15
4×1= 4	4×2= 8	4×3=	12	4×4=	16	4×5=	20
5×1= 5	5×2= 10	5×3=	15	5×4=	20	5×5=	25
6×1= 6	6×2= 12	6×3=	18	6×4=	24	6×5=	30
7×1= 7	7×2= 14	7×3=	21	7×4=	28	7×5=	35
8×1= 8	8×2= (16)	8×3=	24	8×4=	32	8×5=	40
9×1= 9	9×2= 18	9×3=	27	9×4=	36	9×5=	45
10×1= (10)	10×2= 20	10×3=	30	10×4=	40	10×5=	50

Your Work

Draw a multiplication story for the number 30.

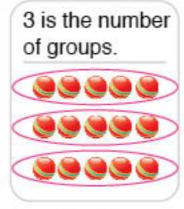
$$3 \times 10 = 30$$

 $10 + 10 + 10 = 30$

(3-3) Understanding Division

If we want to distribute the number 15 to three equal groups,





5 is the number of items in each group.

5

Learn:

- 15→dividend
- 3 → divisor
- 5 → quotient

$$15 \div 3 = 5$$

1. Draw, then write.







$$10 \div 2 = 5$$





$$12 \div 3 = 4$$





$$4 \div 1 = 4$$



2. Fill in the blanks.

12 ÷ 2 = 6 Since $2 \times 6 = 12$

16 ÷ 4 = 4

Since $4 \times 4 = 16$

18 ÷ 2 = 9

Since

2 × 9 = 18

24 ÷ **3** = 8

Since $3 \times 8 = 24$

3. Divide.

 $8 \div 4 = 2$

10 ÷ 5 = 2

15 ÷ 3 = 5

15 ÷ 5 = 3

14 ÷ 7 = 2

16 ÷ 2 = 8

35 ÷ 5 = 7

5 ÷ 1 = 5

Your Work

Draw a story showing (32 ÷ 4).

$$32 \div 4 = 8$$
 since $4 \times 8 = 32$

(3-4) Problem Solving

Rami visited a store to buy 2 flash drives.
 They were priced at 4 JD each.
 What is the total price of both flash drives?

$$2 \times 4 = 8$$

Leen has 15 oranges. If she divides them equally into 3 groups, how many oranges will be in each group?

$$15 \div 3 = 5$$

3. If there are 40 children waiting to go on a rollercoaster and each car can hold 5 people, how many cars will need to be filled?

$$40 \div 5 = 8$$

4. During a practice session, Shadi swam an average of 9 laps per session. If he attended 4 practice sessions, how many laps would he be able to cover on average?

$$9 \times 4 = 36$$

Show Your Turn -

1. Fill in the blanks.



$$\frac{3}{3} + \frac{3}{3} = \frac{6}{6}$$
 Or $\frac{2}{3} \times \frac{3}{3} = \frac{6}{6}$



$$6 + 6 = 12$$
 Or $2 \times 6 = 12$

2. Find the products.

3 3 4 5 x 4 x 9 x 6 x 8 12 27 24 40

2 1 5 4 x 6 x 8 x 6 x 9 12 8 30 36

3. Write the division sentences.









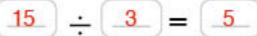












C





D









Your Work

1. Complete the answers.

2. Write 3 division sentences that have the same product.

$$24 \div 6 = 4$$

$$16 \div 4 = 4$$

$$20 \div 5 = 4$$



Unit 4Measurement



Vocabulary

- length
- meter (m)
- centimeter (cm)
- time
- digital clock
- analog clock
- hour
- half past
- minute
- calendar
- months of the year
- January
- February
- March
- April
- May
- June
- July
- August
- September

- October
- November
- December
- days of the week
- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

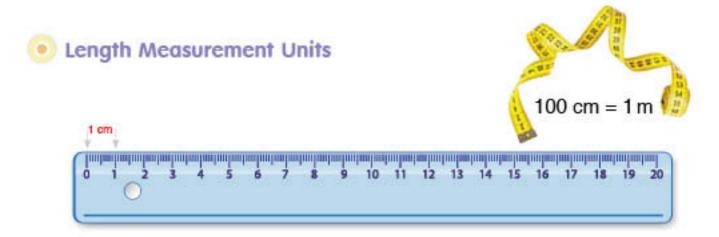




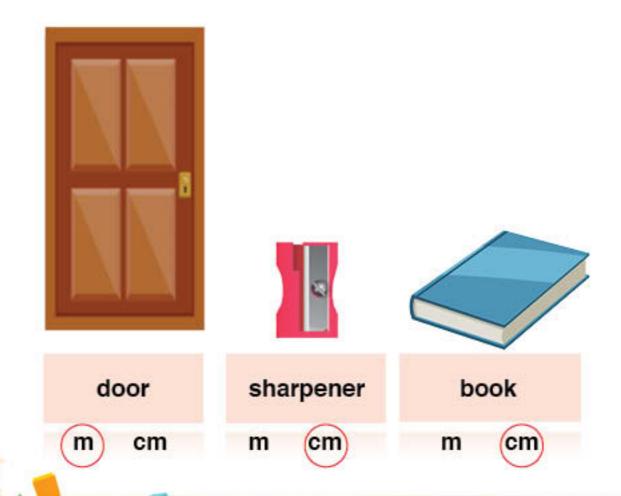
Upon completion of this unit, you will be able to:

- Name the standard metric unit of length.
- Estimate and measure the length of objects in centimeters and meters.
- Differentiate between analog and digital clocks.
- Tell the time.
- Recognize the order of the days of the week and the months of the year.

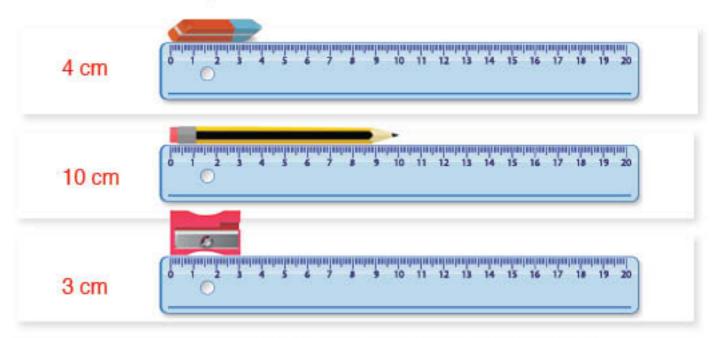
Length is a measure of how long an object is, or the distance between two points. The units of measurement for length are centimeters (cm) or meters (m).



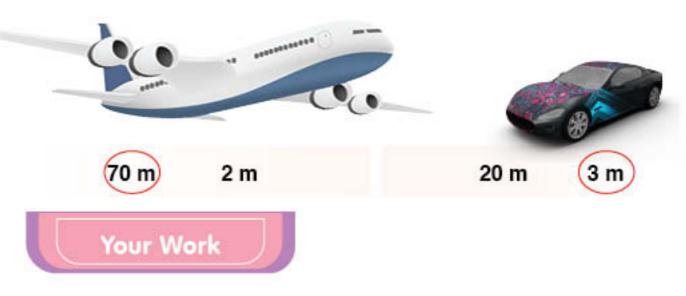
1. Circle the appropriate length unit to measure each object.



2. Measure each object to the nearest centimeter (cm).



3. Estimate and circle the length in meters for each picture.







Units of Time

	1 minute 60 seconds	
	1 hour 60 minutes	
/=	1 day 24 hours	
	1 week	
	7 days 1 month	
	4 weeks	
	1 year 12 months	

1. Circle the right answers.

A It has 12 months: 1 year 1 day

B It has 4 weeks: 1 year 1 month

C It has 24 hours: 1 day 1 week

D It has 60 minutes: 1 week 1 hour

Clocks give us time in hours and minutes.

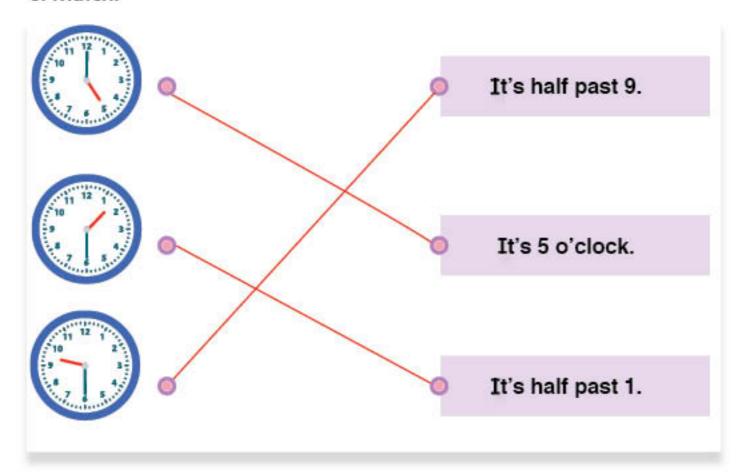
There are two types of clocks: analog and digital.



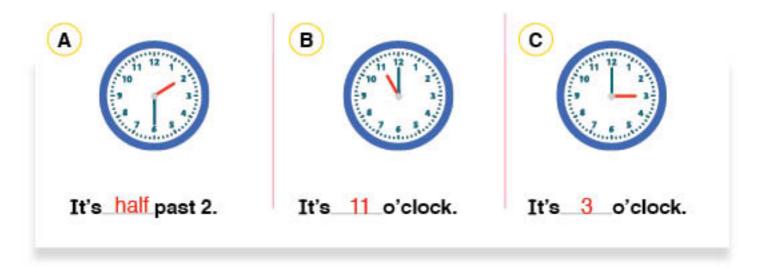
2. Circle the correct times.



3. Match.



4. Write the correct times.



- (4-3) Months of the Year
- Months of the Year



We have 12 months in the year, starting in January and ending in December.

1. Write the missing months.



2. Write the missing letters.



3. Write the months of the year in correct order.

May	March	July
October	August	February
June	December	November
April	September	January

Α	January	В	February	С	March
D	April	E	May	F	June
G	July	н_	August	I	September
J	October	K_	November	L	December



4. Use the calendar below to answer the following questions:

	April							
S	М	Т	W	Т	E	S		
		1	2	3	4	5		
6	7	8	9	10	11	12		
13	14	15	16	17	18	19		
20	21	22	23	24	25	26		
27	28	29	30					

- B April is the _____(seventh fourth) month of the year.

Your Work

Students' own answers

- 1. Write your favorite month.
- 2. Write your birth month.



(4-4) Days of the Week

We have 7 days in the week.

- Yesterday is the day before today.
- Tomorrow is the day after today.



1. Write the correct days.

Yesterday	Today	y Tomorrow
Tuesday	Wednes	sday Thursday
Sunday	Mond	Tuesday Tuesday
Wednesday	Thursd	lay Friday
Monday	Tuesd	wednesday Wednesday
Saturday	Sund	ay Monday
Friday	Saturo	Sunday
Thursday	Frida	Saturday_

2. Look at part of Maha's work schedule and answer the questions.

Month: March	Time	Work
Sunday	6 o'clock	Wake up
Monday	7 o'clock	Go to school
Tuesday	half past 2	Back to home
Wednesday	4 o'clock	Do homework
Thursday	6 o'clock	Watch TV
	7 o'clock	Help my mother
	half past 8	Go to sleep
		7.

- A The month is March .
- B This schedule is for the days:
 - 1 Sunday 2 Monday 3 Tuesday 4 Wednesday 5 Thursday
- C The two days that are not on the schedule are:

Friday , Saturday

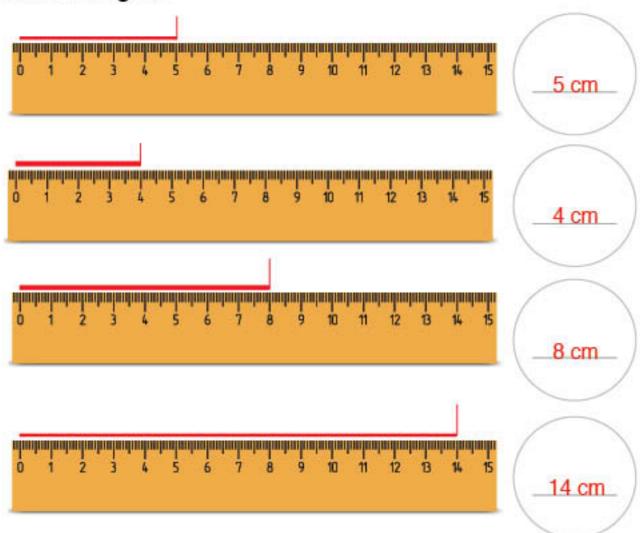
D How much time does Maha spend watching TV?

1 hour



Show Your Turn -

1. Write the lengths.



2. Circle the correct answers.



3. Circle the correct answers.

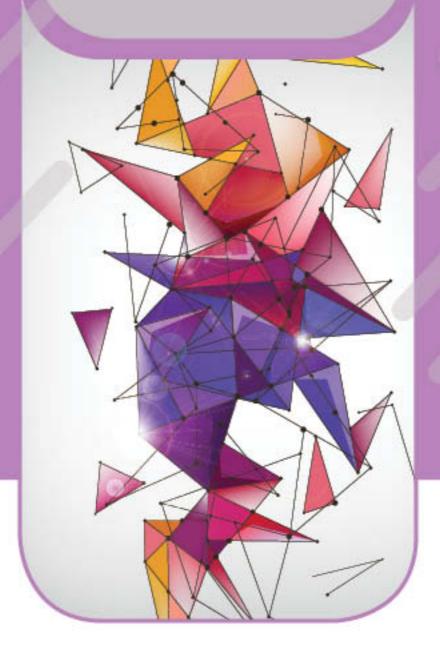
A	The day after Saturday is	(Sunday) / Monday)
В	The year has:	(10 months / 12 months)
C	An hour equals:	(45 minutes / 60 minutes)
D	January is:	The first month of the year of the year
E	October comes after:	(September / November)
	Your Work	Students' own answers

Draw your own clock showing the time you:

Wake up	Go to sleep



Unit 5 Geometry and Patterns



Vocabulary

- shapes
- side
- vertex (corner)
- fraction
- equal parts
- whole
- part
- half
- halves
- one third

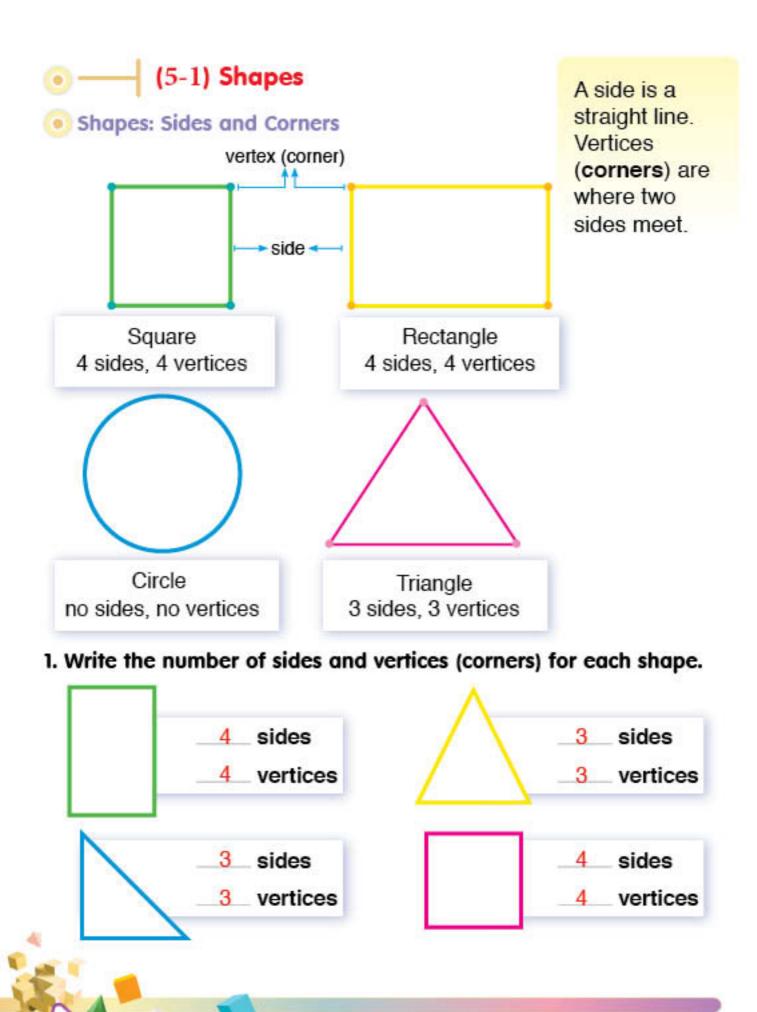
- one fourth (quarter)
- numerator
- denominator
- pattern



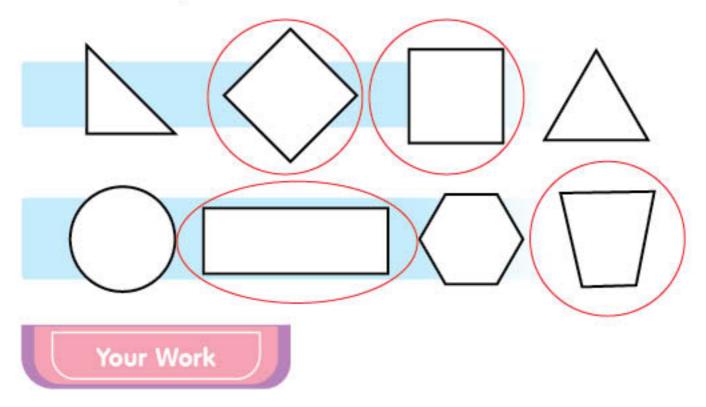


Upon completion of this unit, you will be able to:

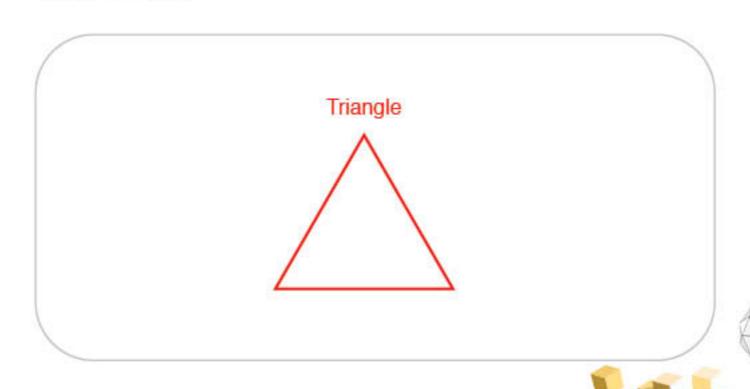
- Find the number of sides and vertices of a two-dimensional shape.
- Define what a fraction is.
- Recognize the numerators and denominators.
- Analyze patterns.
- Recognize types of patterns.

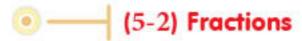


2. Circle the shapes that have four sides.



"I am a shape with 3 straight sides and 3 vertices; who am I?"
Draw to solve.

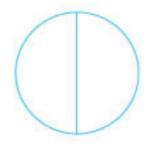




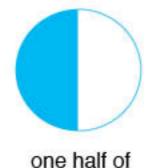
Halves of Shapes



1 whole



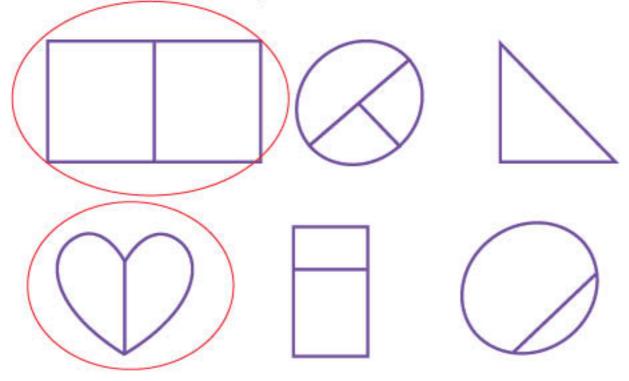
2 equal parts = 2 halves



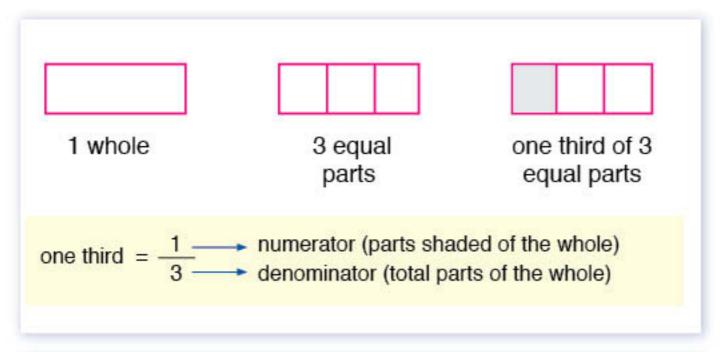
one half of two equal parts =
$$\frac{1}{2}$$

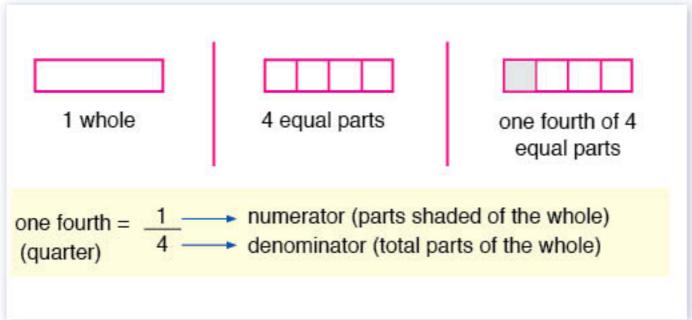
half =
$$\frac{1}{2}$$
 — numerator (parts shaded of the whole) denominator (total parts of the whole)

1. Circle the shapes that represent halves.

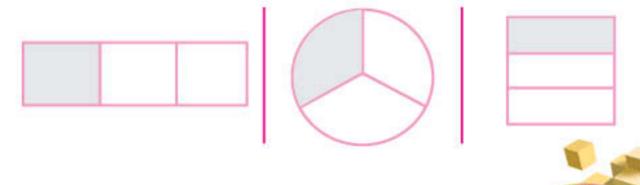




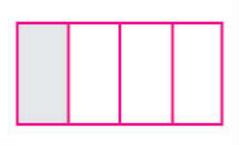




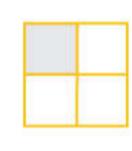
2. Color $\frac{1}{3}$ of each shape.



3. Color $\frac{1}{4}$ of each shape.







4. Complete.

Fraction	Numerator	Denominator
1/4	j	4
1 2	1	2
1 3	1	3

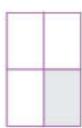
Your Work

 Draw lines to divide the shape into halves.



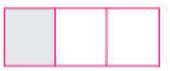
Color 1/2

Draw lines to divide the shape into fourths.



Color 1/4

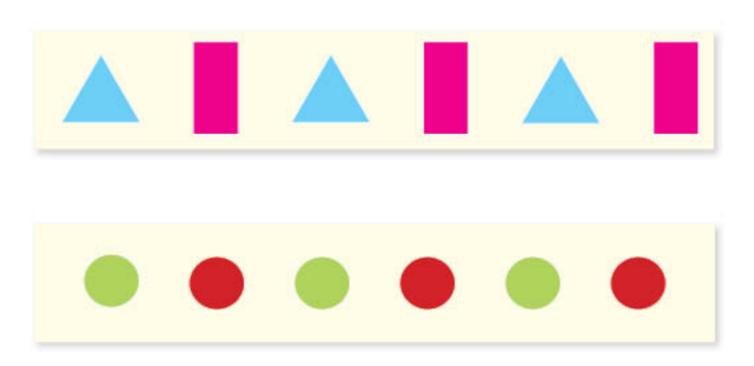
Draw lines to divide the shape into thirds.



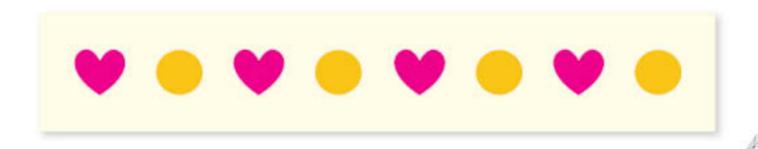
Color $\frac{1}{3}$

(5-3) Patterns

A pattern is a repeated design found in an ordered set of numbers, shapes or other mathematical objects that are arranged according to a rule.



1. Complete the pattern.

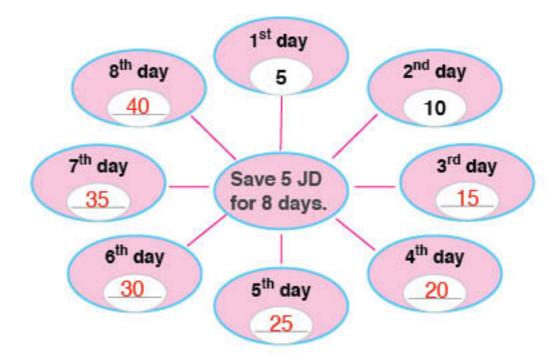


(5-4) Problem Solving

Amal wants to save 2 coins daily for one week.
 How many coins will she save at the end of the week?
 Note that if Amal adds two coins every day, she can collect 14 coins at the end of the week.

Sunday	Mo	nday	/	Tuesda	y	Vednesday	1	Thursday	1	Friday	/	Saturday
2	2	4	+2	6	+2	8	-2	10	+2	12	+2	14
14 0	-											

2. Find out how many coins Tala can collect.



So, Tala can collect _40_ JD at the end of 8 days.



Show Your Turn

1. Complete the number patterns.

+1	1	2	_3_	4	5	6	_7_	_8_	9
+2	2	4	6	_8_	_10_	_12_	14	_16_	_18
+3	3	6	_9_	12	_15_	18	_21_	_24_	27
+2	1	3	_5_	7	9	_11_	13	_15	_17

2. Write the fractions.

