




- 4-digits
- Ones
- Tens
- Hundreds
- Thousands
- Expanded form
- Ascending
- Descending



## O Objectives

- Count with 4-digit numbers.
- Read and write 4-digit numbers.
- Analyze numbers up to 4-digits.
- Write numbers in words.
- Write 4-digit numbers using an expanded form.
- Arrange numbers in ascending and descending order.

O $\quad$ (1-1) 4-Digit Numbers


## 10 hundred

We write a thousand as
or
The comma, is used to separate the «1» of the three other digits, it just makes it easier to read.

| thousands | hundreds | tens | ones |
| :---: | :---: | :---: | :---: |
| 1 | 4 | 5 | 9 |

One thousand four hundred and fifty nine

| thousands | hundreds | tens | ones |
| :---: | :---: | :---: | :---: |
| 2 | 0 | 4 | 8 |

Two thousand and forty eight

## ( Write the number.



0
( Count the beads in each abacus, and write the number.


3,245


4,057


8,359
( Write the number.
A Two thousand three hundred and fourteen.

$$
2,314
$$

B Five thousand and sixty four.

## 5,064

C One thousand and twenty one. 1,021

D Three thousand and twelve.
3,012

## Each digit in a number has a value.

The value of a digit depends on its place in the number.

| thousands |  | hundreds | tens | ones |
| :---: | :---: | :---: | :---: | :---: |
| 6 | , | 5 | 3 | 8 |

The expanded form of a number is written as a sum, showing the place values:
$6000+500+30+8$

- Write in the correct place of the numbers.

$$
\begin{aligned}
& 3,452=3 \text { thousands } 4 \text { hundreds } 5 \text { tens } 2 \text { ones } \\
& 2,731=2 \text { thousands } 7 \text { hundreds } 3 \text { tens } 1 \text { ones } \\
& 6,429=6 \text { thousands } 4 \text { hundreds } 2 \text { tens } 9 \text { ones } \\
& 8,740=8 \text { thousands } 7 \text { hundreds } 4 \text { tens } 0 \text { ones }
\end{aligned}
$$

- Write the value of the digit in the place named.

(O) Write each number in standard form.

( Circle the expanded form of the number 6847.
(A) $7,000+400+80+6$

B $6,000+400+80+7$
(C) $6,000+800+40+7$
(D) $6,000+800+70+4$

(O) Use the digits 2, 7, 6 and 3 to write the greatest possible number.
(O) The greatest digit $\quad 7$ will be in the thousands place.

O The smallest digit $\quad 2$ will be in the ones place.
(O) The greatest possible number using the digits 2, 7, 6 and 3 is 7,632

O (1-2) Numbers in Words
A good way to help with reading large numbers is to break the numbers into smaller pieces.

## 4,687

We can break this number into 2 parts.
The first part is after the third digit from the right.
Then, start reading from left to right.
So we read the number as:
Four thousand six hundred and eighty seven

## ( Match.

1 Two thousand four hundred and thirty eight

Five thousand three hundred

3 Nine thousand and seventeen


Eight thousand six hundred and twenty


- Write the numbers into words.

4,312 Four thousand three hundred and twelve
2,653 Two thousand six hundred and fifty one.
7,008 Seven thousand and eight.
( $-\quad$ (1-3) Comparing Numbers
To compare the numbers 2,340 and 2,670 , first, line up the digits of each number, then compare starting from left.

| thousands | hundreds | tens | ones |
| :---: | :---: | :---: | :---: |
| 2 | 3 | 4 | 0 |
| 2 | 6 | 7 | 0 |

In this case the thousands digits are the same. Therefore, look at the hundred place, since 3 hundred is less than 6 hundred, so 2,340 is less than 2,670.

$$
2,340<2,670
$$

(1) Put the correct sign in the box (> or < or =).

$$
\begin{aligned}
& 4,200<4,300 \quad 1,900<1,524 \quad 5,555<9,550 \\
& 2,670>8,500 \quad 3,211>4,609 \quad 7,320>7,310 \\
& 2,543>2,244 \quad 8,705>8,700 \quad 3,000=3,000
\end{aligned}
$$

(O) Circle the smallest number.
A $4,000 \backslash 400$, 4
B $602 \backslash 620 \backslash 623$
C 512 \215 251
D
3,142 $1,328 \backslash 2,645$
( Arrange the following numbers in ascending order.

| A | 9,435 | 7,435 | 9,600 | 8,236 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7,435 | 8,236 | 9,435 | 9,600 |  |
|  | 2,500 | 2,660 | 1,900 | 2,600 |  |
|  | 1,900 | 2,500 | 2,600 | 12,660 |  |
| C | 2,660 | 2,830 | 2,740 | 3,800 | 2,650 |
|  | 2,650 | 2,660 | 2,740 | 2,830 | 3,800 |
|  | 7,350 | 5,350 | 9,350 | 8,350 | 6,350 |
| D | 5,350 | 6,350 | 7,350 | 8,350 | 9,350 |

- Arrange the following numbers in descending order.

| A | 7,772 | 8,500 | 6,550 | 5,69 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8,500 | 7,772 | 6,550 | -5,690 |  |
|  | 3,900 | 1,346 | 4,930 |  |  |
|  | 4,930 | 3,900 | 1,727 | 1,346 |  |
|  | 8,420 | 5,640 | 9,760 | 3,909 | 7,650 |
| c | 9,760 | 8,420 | 7,650 | 5,640 | 3,909 |
| D | 5,505 | 2,350 | 9,464 | 6,678 | 6,654 |
|  | 9,464 | 6,678 | 6,654 | 5,505 | 2,350 |
| Your Work |  |  |  |  |  |

Taim has 9 bills of tens, and 3 bills of ones. ..... 93
Ali has $\mathbf{7}$ bills of tens, and 13 bills of ones. ..... 83
Sara has 8 bills of tens, and 3 bills of ones. ..... 83Which two have the same amount of money?Ali_ and Sara have the same amount of money.
 (1-4) Problem Solving This chart shows the vital statistics of some Roosters Football Club players.

| Name | Height | Mass |
| :--- | :--- | :--- |
| - Zaid | 206 cm | 99 kg |
| - Ward | 196 cm | 110 kg |
| - Kareem | 173 cm | 78 kg |
| - Osama | 184 cm | 88 kg |
| - Rami | 181 cm | 79 kg |
| - Said | 201 cm | 118 kg |

A. Who is the tallest? Who is the shortest?

Zaid is the tallest and Kareem is the shortest.
B. Put these players in order of lightest to heaviest:

## Rami, Kareem and Osama.

Kareem, Rami and Osama.
C. Who do you want to throw the ball? Why?

Zaid because he is the tallest.
D. Who would you least like to have tackle you? Why? Said because he is the heaviest.

## Show Your Turn

- Write the numbers.
(a) Seven thousand four hundred and sixty eight:

$$
7,460
$$

b Two thousand and seventeen:

$$
2,017
$$

(c) Five thousand nine hundred and one:

$$
5,901
$$

( Write each number in standard form.
(1) $3,000+200+8=2,208$
(2) $4,000+500+7=4,507$
(3) 7,000+9 = 7,009
(4) $\mathbf{5 , 0 0 0}+800+10+5=5,815$

- Write the value of each underlined digit.

| 1 | $\underline{6}, 300$ | 6,000 |
| :--- | :--- | :--- |
| 2 | $9, \underline{3} 40$ | 300 |
| 3 | $7,59 \underline{0}$ | 0 |
| 4 | $2,4 \underline{8} 5$ | 80 |

( Write the correct sign in the box ( $>,<,=$ ).

| 1,525 | $>$ | 1,255 |
| ---: | :--- | ---: |
| 1,120 | $<$ | 2,121 |
| 5,002 | $>$ | 5,002 |
| 9,919 | $>$ | 4,491 |
| 2,011 | $>$ | 2,010 |
| 4,006 | $<$ | 4,060 |

O Arrange the following numbers.


Descending order:


Ascending order:


## O Vocabulary

- Addition
- Addend
- Subtraction
- Subtrahend
- Multiplication
- Factors
- Division

Regrouping
Sum

- Minuend
- Difference
- Product
- Divide


## O Objectives

- Add numbers up to 4-digits.
- Subtract numbers up to 4-digits.
- Multiply numbers up to $10 \times 10$.
- Divide 1 by 1 numbers.

Solve problems in contexts.

$\qquad$ (2-1) Addition

## Do you know how to add numbers? LET'S TRY!

Arrange the numbers according to their place value. Add the ones first, then the tens, next the hundreds and finally the thousands.

To add $7263 \mathbf{+ 2 4 1 5}$ :

| Add the ones | Add the tens | Add the hundreds | Add the thousands |
| :---: | :---: | :---: | :---: |
| 7263 | 7263 | 7 (2) 63 | (7) 263 |
| +2415 | +2415 | +2415 | +2415 |
| 8 | 78 | (6)78 | (9) 678 |

We call the numbers 7263, 2415 the addend, and the number 9678 the sum.
( - Find the sum.

$$
\begin{array}{r}
1054 \\
+7421 \\
\hline 8475
\end{array}
$$

$$
\begin{array}{r}
1010 \\
+3864 \\
\hline 4874
\end{array}
$$

$$
\begin{array}{r}
2243 \\
+2721 \\
\hline 4964
\end{array}
$$

Addition with regrouping
Addend

+ 3906
Addend
Sum


| 421 |
| ---: |
| Add the <br> tens. |
| $\quad 3906$ |
| 64 |

Add the
4258 2
hundreds.

+ 3906 $\frac{+9}{11}=10+1$
Add the $\begin{array}{r}14258 \\ +\quad 3906 \\ \hline 8164\end{array}$

$$
\stackrel{\text { so }}{ } \quad \begin{array}{r}
4258 \\
+\quad 3906
\end{array}+8164
$$

(O) Find the sum.


$$
\begin{array}{r}
4266 \\
+\quad 2110 \\
\hline 6376
\end{array}
$$

$$
\begin{array}{r}
6113 \\
+\quad 2890 \\
\hline 9003
\end{array}
$$

$$
\begin{array}{r}
4622 \\
+\quad 0348 \\
4406 \\
\hline 9376
\end{array}
$$

(O) Find the sum.

| Find the sum. | $6 \stackrel{1}{2} 4$ |
| :---: | :---: |
| A $6024+517=$ | $\begin{array}{r} \\ +\quad 517 \\ \hline\end{array}$ |
|  | 6541 |

To find the horizontal addition arrange the numbers according to their place value, then add.
(B) $2 \mathbf{3 2 4 + 2 2 7 3 = \quad 4 , 5 9 7}$
(C) $4266+2110=\quad 6,376$
D) $4622+2348=\quad 6,970$

## Your Work

- Addition Circles.

- Choose one number from each wheel.
- Add the numbers together.
- Do this three times with three different pairs of numbers.

- Choose two numbers from $(5237,3046,2960)$ which their addition sum is the greatest.

The numbers are 52.37 , 304.6 because


- (2-2) Subtraction

To find

$$
\begin{array}{r}
5896 \\
-\quad 3276
\end{array}
$$

| Subtract the ones: | Subtract the tens: | Subtract the hundreds: | Subtract the thousands: |  |
| :---: | :---: | :---: | :---: | :---: |
| 5896 | 5896 | 5896 | 5896 | minuend |
| - 3276 | - 3276 | - 3276 | - 3276 | subtrahend |
| 0 | 20 | 620 | 2620 | difference |

- Subtract to find the difference.

| A | $\begin{array}{r} 6,397 \\ -\quad 3,227 \end{array}$ | B | $\begin{array}{r} 5,058 \\ -\quad 3,047 \end{array}$ |
| :---: | :---: | :---: | :---: |
|  | 3,170 |  | 2,011 |
| C | 5,673 | D | 7,059 |
|  | - 3,422 |  | - 3,038 |
|  | 2,251 |  | 4,021 |

( Subtract the following horizontal problems.

A $3,348-2,137=1,211 \quad$| 3,348 |
| :--- |
|  |
| 1,211 |

B $\quad \mathbf{4 , 5 8 9 - 4 , 2 8 8 =}$ 301

C $\mathbf{7 , 3 6 5 - 7 , 2 4 4}=121$

## Subtracting with regrouping



| Subtract the tens: | $\begin{array}{r} 6182 \\ -\quad 3567 \end{array}$ |
| :---: | :---: |
|  | 15 |



| Subtract the thousands: | 5117 <br> 688 <br> 12 |  | 517 <br> 6782 <br>  <br> 12 |
| :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} 6782 \\ -\quad 3567 \end{array}$ | $\rightarrow$ | - 3567 |
|  | 2615 |  | 2615 |

Find the difference.

| 4,764 |
| ---: |
| $-\quad 2,805$ |
| 1,959 |


| $\mathbf{9 , 3 7 7}$ |
| ---: |
| $-\quad 8,344$ |
| 1,033 |

(O) Subtrac and show your work.

A $\mathbf{7 , 7 6 5 - 6 , 5 9 1}=\mathbf{1 , 1 7 4}$

4,765

- 6,591

1,174

B $\mathbf{5 , 0 6 5 - 4 , 2 5 0}=20,815$

C $\mathbf{9 , 3 4 2 - 7 , 2 1 2}=69,130$

$$
\begin{aligned}
& \text { Your Work } \quad 7,978-5,244=2,734 \\
& 7,594-4,860=2,734
\end{aligned}
$$

Write two numbers with the difference of 2,734.
Write two numbers with the difference of an even number.
( Find the sum.

$6,574-4,882=1,692$

$$
6,321-3,638=2,683
$$

## O- (2-3) Multiplication

Multiplication means recurring addition.

(00 + $+0.0+0$
$3+3+3+3+3=15$
or
(5) $\times 3=15$


Add:
$2+2+2=6$
Multiply:
$3 \times 2=6$


The numbers we multiply are called factors. The answer is called the product.

- You can memorize the multiplication facts for any number by studying the multiplication tables.

( Find the sum.
(O) Multiply.

$$
3 \times 5=\xrightarrow{15} \quad 8 \times 4=\xrightarrow{32} \quad 9 \times 7=63
$$

$$
6 \times 2=\underline{12}
$$

$$
10 \times 2=-20
$$

$$
5 \times 1=\frac{5}{}
$$

$$
4 \times 4=\underline{16}
$$

$$
2 \times 8=\frac{16}{}
$$

$$
7 \times 3=\underline{21}
$$

$$
8 \times 7=\xrightarrow{56} \quad 4 \times 5=\square \quad 6 \times 9=54
$$

$$
9 \times 9=\xrightarrow{81} \quad 7 \times 8=-56
$$

$$
\mathbf{8} \times 5=-40
$$

$$
5 \times 7=\underline{35}
$$

$$
4 \times 9=-36
$$

$$
7 \times 2=-14
$$

## Your Work

O Multiply and color.


## O (2-4) Division

Sara wants to share 12 books with her sister and her brother equally. How many books will each one take? 4 books each


You can use a multiplication fact to find how many threes are in 12. since $4 \times 3=12$, you know that $12 \div 3=4$

## (O) Find:

1. How many groups of 2 ? 8 $\qquad$
2. How many groups of 4 ?

2

3. How many groups of 5 ?

3

4. How many groups of 10 ? $\qquad$ 1

( Division is the inversion operation of multiplication. That means that you can use multiplcation facts to find division facts.

$$
\begin{aligned}
& 6 \times ?=24 \quad 6 \times 4=24 \\
& \text { So } 24 \div 6=4 \\
& 9 \longdiv { 1 8 } \\
& 9 \times 2=18 \text { So } \\
& \text { So } 18 \div 9=2 \\
& 7 \sqrt{35} \quad 7 \times 5=35 \text { So } 35 \div 7=5 \\
& 9 \longdiv { 6 3 } \\
& 9 \times 7=63 \\
& \text { So } 63 \div 9=7 \\
& 8 \longdiv { 5 6 } \\
& 8 \times 7=56 \\
& \text { So } 56 \div 8=7 \\
& 1 \sqrt{12} \quad 1 \times 12=12 \text { So } 12 \div 1=12
\end{aligned}
$$

O Divide.
$14 \div 2=7$

$$
30 \div 5=6
$$

$$
49 \div 7=7
$$

$18 \div 6=3$
$9 \div 9=1$
$20 \div 4=5$
$15 \div 5=3$
$28 \div 4=7$
$81 \div 9=9$
$72 \div 8=9$
$21 \div 3=7$
$42 \div 7=6$

How many (8s) are in $32 ? \quad 32 \div 8=4$

How many (4s) are in $32 ? \quad 32 \div 4=8$

How many (2s) are in $32 ? 32 \div 2=16$
(2-5) Problem Solving
Solve the following problems:

- Adam's school had a cookout day. The parents helped cook the food. They cooked 3,305 pizzas. In one hour, 1,722 pizzas were eaten. How many pizzas were left?

3,305-1,722 = 1,583 pizzas are left

- Omar scored 8,776 points in a fighting game.

Ali scored 2,550 less points than Omar. How many points did Ali score?
$8,776-2,550=6,226$ points

- Sara has 24 cookies. She gave an equal number of cookies to 4 friends. How many cookies did each friend get?
$24 \div 4=6$ cookies
- Tala had 9 books. She put them into 3 equal stacks.
How many books were in each stack?
$9 \div 3=3$ books


## Show Your Turn

(0) Find:


$$
\begin{array}{r}
1,608 \\
+\quad 2,917 \\
\hline 4,252
\end{array}
$$

$\begin{array}{r}7,625 \\ -\quad 6,574 \\ \hline 1,051\end{array}$

$$
3 \times 7=21
$$

$8 \times 4=32$
$12 \div 3=4$
$63 \div 7=9$
$5 \times 6=30$
$9 \times 9=81$
$30 \div 5=6$
$10 \div 10=1$


## (O) Vocabulary

- Whole
- Fraction
- Part of a whole
- Numerator
- Adding fractions


## O Objectives

- Identify the fraction as a part of a whole.
- Identify the fraction as a part of a set.
- Write the numerator and the denominator of the fraction.
- Add fractions with the same denominator.
- Subtract fractions with the same denominator.

O - (3-1) Identify Fractions


A fraction is a part of a whole, when we divide the whole into equal parts.


A fraction can also be a part of a set.
( Circle the fraction that is shaded.

( Write the fraction that is shaded.

$\frac{1}{2}$


8

The numerator is 1 , and the denominator is

2


The numerator is 3 , and the denominator is


The numerator is 1 , and the denominator is

The numerator is 5, and the denominator is
( Color in each fraction amount.


- Draw a fraction with a numerator of 3 and a part of the set 8 , and then fill in the blank.

The fraction is $\qquad$

The numerator is $\quad 3$, and the denominator is
(-) (3-2) Adding Fractions (with the same denominator)


$$
\frac{1}{5}+\frac{2}{5}=\frac{3}{5}
$$

(O) Color, and then find the sum.


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

$$
\frac{1}{8}+\frac{4}{8}=\frac{5}{8}
$$

(O) Fill the blank.

$$
\begin{array}{ll}
\frac{4}{9}+\frac{3}{9}=\frac{7}{9} & \frac{2}{11}+\frac{5}{11}=\frac{7}{11} \\
\frac{1}{14}+\frac{7}{14}=\frac{8}{14} \\
\frac{11}{15}+\frac{2}{15}=\frac{13}{15} & \frac{5}{8}+\frac{1}{8}=\frac{6}{8} \\
\frac{10}{17}+\frac{5}{17}=\frac{15}{17}
\end{array}
$$

## Your Work

( Draw the figure to find the sum of $\frac{1}{3}+\frac{2}{3}=\frac{3}{3}$


- Show, how to find the sum of $\frac{12}{23}+\frac{7}{23}$

$$
\frac{12}{23}+\frac{7}{23}=\frac{19}{23}
$$

(-) Draw the shape of $\frac{3}{10}+\frac{6}{10}$

$$
\frac{3}{10}+\frac{6}{10}=\frac{9}{10}
$$

O - (3-3) Subtracting Fractions (with the same denominator)

$$
\frac{3}{4}-\frac{1}{4}=?
$$


( Color, and find.


(O) Fill the blank.

$$
\begin{array}{ll}
\frac{7}{16}-\frac{2}{16}=\frac{5}{16} & \frac{9}{9}-\frac{3}{9}=\frac{6}{9} \\
\frac{27}{42}-\frac{9}{42}=\frac{18}{42} \\
\frac{11}{25}-\frac{2}{25}=\frac{9}{25} & \frac{11}{14}-\frac{7}{14}=\frac{4}{14} \\
\frac{6}{8}-\frac{2}{8}=\frac{4}{8}
\end{array}
$$

## Your Work

(0) Draw the figure to find the answer.

(-) Draw the stompeff $\frac{5}{9}-\frac{2}{9}=\frac{3}{9}$
(O) Find.

(a) $1-\frac{3}{5}=\frac{5}{5}-\frac{3}{5}=\frac{2}{5}$
(b) $1-\frac{3}{10}=\frac{10}{10}-\frac{3}{10}=\frac{7}{10}$
0

(3-4) Problem Solving

a


What fraction of the buffaloes is black?
Answer: $\frac{1}{3}$

## What fraction of birds is white?

- Answer: $\frac{4}{4}$

C
Color the shape to show $\frac{2}{4}$.

## Show Your Turn

( Circle the shape that is $\frac{1}{4}$ gray.


- Circle the fraction that shows the colored part.

- Color three parts of each shape then write the fraction.

$\frac{3}{12}$
( Find the following:

$$
\begin{array}{ll}
\frac{3}{5}+\frac{1}{5}=\frac{4}{5} \\
\frac{5}{8}+\frac{12}{8}=\frac{7}{9}-\frac{5}{9}=\frac{2}{9} \\
\frac{4}{12}+\frac{3}{12}=\frac{70}{12}-\frac{9}{17}=\frac{1}{17} \\
\frac{7}{7}-\frac{1}{7}=\frac{4}{7} \\
\frac{7}{30}+\frac{3}{30}=\frac{9}{30} & \frac{19}{19}-\frac{7}{19}=\frac{12}{19}
\end{array}
$$

( Draw the shape to show $\frac{3}{4}$.



## O Vocabulary



- Volume
- Mass
- Kilogram (kg)
- Past
- Islamic calendar
- Muharram
- Safar
- Rabi al-Awwal
- Rabi al-Thani
- Jumada al-Awwal
- Jumada al-Thani
- Rajab
- Sha`ban
- Ramadan
- Shawwal
- Thu al-Qi'dah
- Thu al-Hijah
- Jordanian dinnar (JD)
- Cubic unit
- Gram (g)
- Analog clock
- Half-past
- Money


## - Objectives

- Find the volume of an object.
- Identify the mass of an object.
- Telling the time.
- Identify the Islamic calendar.
- Problem solving using (JD) money.

$0-\mid(4-1)$ Mass

Mass is a measure of how heavy something is.


We measure mass in grams and kilograms. $(1000 \mathrm{~g}=1 \mathrm{~kg})$

Circle the lighter object.


Circle the heavier object.


Circle the heavier object.

( Match with the suitable mass.

( Measure the mass of each object.


Volume is the amount of space an object takes up.

The unit of volume is a $\square=1$ cubic unit.

O Finding volume.


Volume 16 cubic units


Volume _18 cubic units


Volume $\quad 12$ cubic units


Volume 18 cubic units

O Count the cubes and write the volume of each object. (note $\left.\square=1 \mathrm{~cm}^{\prime}\right)$.

$3 \mathrm{~cm}^{3}$

$4 \mathrm{~cm}^{3}$

$3 \mathrm{~cm}^{3}$

$8 \mathrm{~cm}^{3}$

$5 \mathrm{~cm}^{3}$

$6 \mathrm{~cm}^{3}$

$5 \mathrm{~cm}^{3}$

$4 \mathrm{~cm}^{3}$

- Arrange the volume of objects in ascending order.
©


The order is $B, A, C, D$.

## Analog clock

- The short hand represents the hours.
- The long hand represents the minutes.
- There are 12 hours on an analog clock.
- Every hour has 60 minutes.
(1 hour = 60 minutes).

- Quarter past 4 means 4:15
- Quarter to 4 means 3:45
(O) Match with the correct time.


O Guided practice



A


B

- What is the time on clock A? $\mathbf{9 : 2 0}$
- What is the time on clock $B$ ? 12: 05
( Draw the hands of the clock to show the time.



## $0-1$ <br> (4-4) Islamic Calendar

## Normal Calendar

## Islamic Calendar

## January

February
March
April
May
June
July
August
September
October
November
December

## Muharram

## Safar

Rabi al-Awwal
Rabi al-Thani
Jumada al-Awwal
Jumada al-Thani

## Rajab

Sha`ban Ramadan Shawwal Thu al-Qi`dah
Thu al-Hijjah
(-) Answer the questions.
What is the first month of the new calendar? $\qquad$ January .

- What is the last month of the Islamic calendar ? Thu al-Hijah .
- The month that comes after July $\qquad$ August $\qquad$ .
- What is the first month of the Islamic calendar? Muharram
- The $8^{\text {th }}$ month of the Islamic calendar is $\qquad$ Sha'baan .
- Arrange the months bellow:

Sha'ban, Ramdan, Rajab Rajab, Sha'baan, Ramadaan

- Shawwal is the $\qquad$ $10^{\text {th }}$ month of the Islamic calendar.


Hassan buys 3 pizzas and one bottle of juice.
The total cost is 20 JOD.
The juice costs 2 JOD.
How much does one pizza cost?

$20-2=18$
$18 \div 3=6$
6 jds

Lana has 50 JOD to spend on presents.
She wants to buy 4 mugs, 3 teddy bears and 5 rings. What is the total cost of presents? Can she buy all the things that she wants? Yes she can $4 \quad 2=8 \quad 6=18$
$3 \quad 5=15$ $8+18+15=41$
$50-41=9$

- Zaid wants to buy a computer and a printer for his office.

The computer costs 500 JOD and the printer costs 220 JOD.
How much money does he need?
$500+220=720$ jds

## Show Your Turn

O Find the mass.

the ring
( Write the correct time.


4:24

O Find the volume then answer.


Volume $=\underline{11} \mathrm{~cm}^{3}$
(b)


Volume $=\underline{6} \mathrm{~cm}^{3}$
(c)

Volume $=\underline{8} \mathrm{~cm}^{3}$
(f)


Volume $=12 \mathrm{~cm}^{3}$
(e)


Volume $=\underline{14 \mathrm{~cm}^{3}}$

(d)

(h)


Volume $=\underline{13} \mathrm{~cm}^{3}$
(i)


Volume $=\underline{10} \mathrm{~cm}^{3}$

Which model has the greatest volume? $\qquad$

Which model has a volume of $11 \mathrm{~cm}^{3}$ ? $\qquad$

Which model has a volume of 10 cubic centimeters? $\qquad$

Which model has the least volume? b

O Solve the following.

( How much money would you need to buy...

- A robot and a yoyo $\qquad$ .

A windmill and a beach ball $\qquad$ .

A bicycle and a robot $\qquad$ 37 .

- How much change would you get from 100 JOD if you buy a robot and a bicycle?


- Shape
- Circle
- Square
- Side
- Solid shapes
- Cube
- Square pyramid
- Cylinder
- Face
- Geometric patterns
- Oval
- Triangle
- Rectangle
- Vertex (corner)
- 3-Dimentional shape
- Cubical (rectangular prism)
- Sphere
- Cone
- Edge
- Number patterns

O Objectives

- Recognize the names of 2-D shapes.

Recognize the solid shapes.

- Recognize shapes and numbers into patierns.

Complete the missing patterns.

- The shape is a place figure (flat surface).

( Color the shapes.

circle $=$ yellow
oval = orange
square $=$ red
triangle $=$ green
star $=$ blue
hexagon = pink

diamond = purple
rectangle $=$ black
( How many sides and vertices in each shape.


Sides
4

Vertices

- 4


Sides
Vertices
$\qquad$ 0


Sides
Vertices
3
3


Sides
Vertices
$\square$
4
$\qquad$


Sides
Vertices
6


Sides
Vertices
6

8
8
$0-\mid(5-2)$ Solid Shapes

cone

2 faces
1 edge
1 vertices

cylinder 3 faces
2 edges 0 vertices

sphere
1 face
1 edge
0 vertices

cube
6 faces
12 edges
8 vertices

cubed
(ractangular prism)
6 faces
12 edges
8 vertices

pyramid
5 faces
8 edges
5 vertices

- A solid shape is a figure of 3-dimensional object.


Edge
( Name each of these solid shapes below.


Cylinder

Sphere


Pyramid
(O) Fill in the table.

|  | The name | Number of faces | Number of sides | Number of vertices |
| :---: | :---: | :---: | :---: | :---: |
|  | Cylinder | 3 | 2 | 0 |
|  | cube | 6 | 12 | 8 |
|  | Pyramid | 5 | 8 | 5 |
|  | Sphere | 1 | 1 | 0 |
|  | Cone | 2 | 1 | 1 |
|  | cube | 6 | 12 | 8 |

( Color the 2D-shapes green and the 3D-shapes yellow.


O - (5-3) Geometric Patterns

## A geometric Pattern: is a pattern made from geometric shapes.

(- Draw to complete each pattern with the next figure.



( Draw the missing shape to complete the pattern.


## Your Work

O Draw your geometric Pattern.

( $-\quad(5-4)$ Number Patterns
Number Pattrens are patterns made from numbers.
( Write the missing numbers to continue the patterns.


(b) |  | 3 | 2 | 6 | 3 | 2 | 6 | 3 | 2 | 6 | 3 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(c) $\begin{array}{lllllllllllllllll}4 & 5 & 7 & 4 & 5 & 7 & 4 & 5 & 7 & 4 & -5 & 7\end{array}$
(d) $1 \begin{array}{lllllllllllll}1 & 2 & 1 & 1 & 1 & 1 & 1 & 2\end{array}$
( Complete the patterns.
(a) $2,4,6,8,10,12,14,16$
(b) 1
(C) $65,60,55,50, \underline{45}, \underline{40}, \underline{35}, \underline{30}, \underline{25}$
(d) $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}, \frac{4}{10}, \frac{5}{10}, \frac{6}{10}, \frac{7}{10}, \frac{8}{10}, \frac{9}{10}, \frac{10}{10}$
(O) Write the missing numbers.




10
2


6
8



| 10 | 20 | 30 | 40 | . 50 |
| :---: | :---: | :---: | :---: | :---: |

( How many sides and vertices are in each shape.


Sides 5

Vertices 5

Sides 3

Vertices 3

Sides 4
Vertices 4

Sides 0
Vertices 0
( Color the correct shape.
circle

rectangle

square

Star


- hexagon

triangle

- Match each figure with the correct sentence.

( Circle the picture that continues the pattern. Color the picture.

$$
\bigcirc \triangle \square \bigcirc \triangle \square
$$




$$
\leadsto \diamond 0 \wedge\rangle 0
$$

$$
\pi 0
$$

$$
\xi \approx \bigcirc \bigcirc\}
$$


$\diamond \Omega \triangle \square \diamond \Omega \triangle \square$

( Complete the patterns, and then write the rule.
(12) 16 20 28

Rule: $\quad+4$

17 (21 23

Rule: $\quad+2$

30 (40 50 ( 40

Rule: $\quad+10$
(84 74 64 54

Rule:


