4

يلا نلم المنهج

HODA ISMAIL

Math

Grade 4

Final Revision

ليلة الإمتحان

Math For Kids: Hoda Ismail

4 يلا نلم المنهج

Final Revision

1 Fractions :

In the mixed number $3\frac{2}{5}$

the numerator is ..... ,the denominator .....

,the whole number is .....

2 Mixed number and Improper :

$\frac{3}{8}$ Proper

$\frac{8}{8}$ One whole or Improper

$\frac{11}{8}$ Improper

$1\frac{3}{8}$ Mixed number

$4\frac{3}{5}$ = ... as improper

$\frac{17}{3}$ = ... as mixed number

3 Write fraction :

Two fifths = ...

$\frac{3}{7}$ = ... in word form

4 unit fraction :

The unit fraction of $\frac{5}{8}$ is .....

Number of unit fraction in $\frac{4}{7}$ is .....

Number of unit fraction in two third is .....

Decompose $\frac{3}{4}$ to unit fractions .....

Final Revision

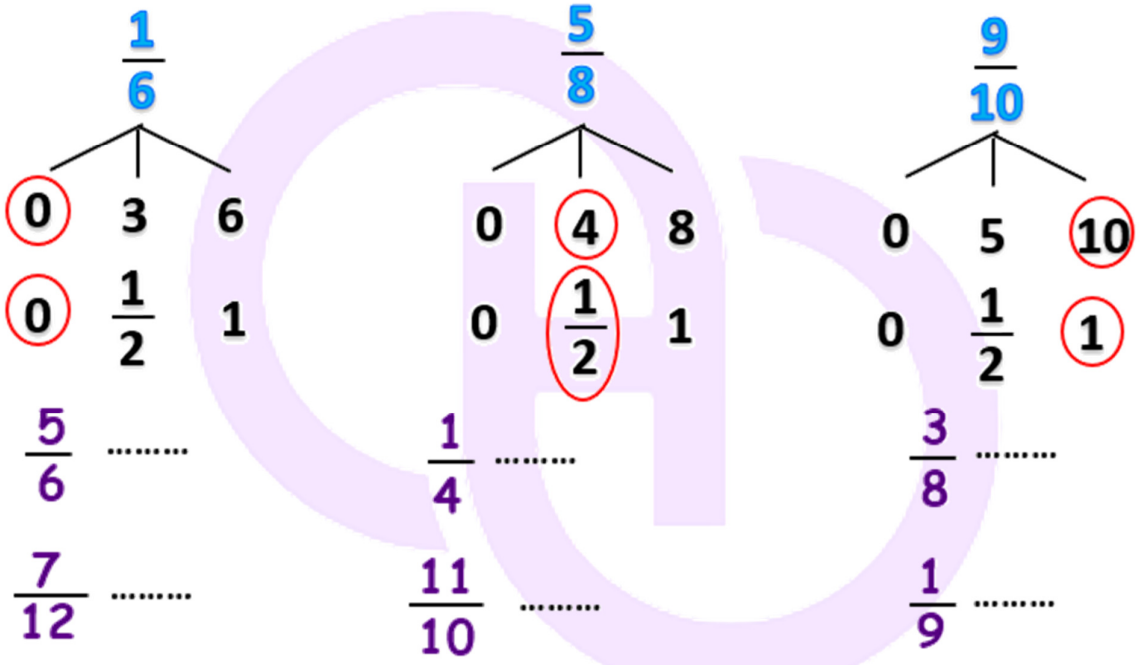
5 Whole number

Number of **third** in **one** is .....

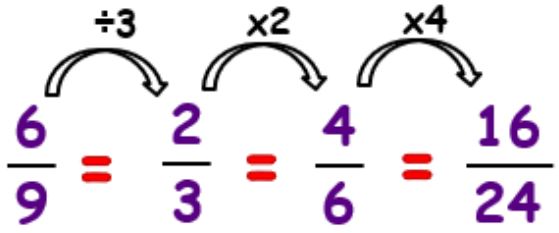
How many **fifths** in **three** ?

6 Benchmark fractions :

0 $\frac{1}{2}$ 1



7 Equivalent fraction :



$\frac{\dots}{5} = 4$	$\frac{12}{\dots} = 2$	$\frac{3}{7} = \frac{\dots}{35}$	$\frac{15}{24} = \frac{5}{\dots}$

Final Revision

8 Comparing fractions :

Like denominator

$\frac{3}{7}$ ..... $\frac{5}{7}$

Like numerator

$\frac{2}{5}$ ..... $\frac{2}{9}$

Not Like

$\frac{3}{2}$ ..... $\frac{5}{7}$

$\frac{8}{8}$ ..... $\frac{4}{3}$

$\frac{7}{9}$ ..... $\frac{2}{2}$

$\frac{6}{12}$ ..... $\frac{1}{2}$

$\frac{4}{8}$ ..... $\frac{3}{4}$

$\frac{3}{8}$ ..... $\frac{5}{10}$

improper
One whole
proper

more
half
less

9 Arrange fraction :

➡ **ascending** $\frac{5}{9}$, $\frac{3}{9}$, $\frac{7}{9}$, $\frac{4}{9}$ (Like denominator)

$\frac{3}{9}$ smallest

➡ **ascending** $\frac{2}{5}$, $\frac{2}{3}$, $\frac{2}{11}$, $\frac{2}{8}$ (Like numerator) (Crazy)

$\frac{2}{11}$ smallest

➡ **descending** $\frac{4}{8}$, $\frac{2}{6}$, $\frac{5}{4}$, $\frac{6}{10}$, $\frac{7}{7}$

$\frac{4}{8}$ half — $\frac{2}{6}$ Less — $\frac{5}{4}$ improper — $\frac{6}{10}$ more — $\frac{7}{7}$ One whole

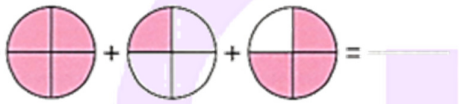
Final Revision

10 Add and subtract

a) $3 + \frac{2}{7} =$ .....

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

c) $5\frac{5}{6} + 1\frac{2}{6} =$ .....

d)  = _____

e) $3 - \frac{4}{5} =$ .....

f) $4\frac{5}{8} - 2\frac{1}{8} =$ .....

g) $2\frac{3}{7} - 1\frac{4}{7} =$ .....

h)  = _____

11 Multiply fraction :

➡ Multiply by one $\frac{3}{4} \times \frac{2}{2}$ (one) $= \frac{6}{8}$ or $\frac{3}{4}$

➡ Multiply by whole number $\frac{2}{5} \times 35^{7} = 14$

a) $\frac{4}{7} \times \frac{3}{3} =$ .....

b) $\frac{6}{8} \times 24 =$ .....

12 Value and place value of decimals:

In the number 2.57

The digit 2 its place value is ..... its value is .....

The digit 5 its place value is ..... its value is .....

The digit 7 its place value is ..... its value is .....

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13 Write decimals:

9 tenths = 0.9 ⟶ Put point after one digit

127 hundredths = 1.27 ⟶ Put point after two digit

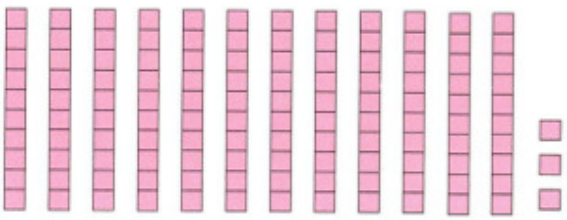
4 =..... tenths ⟶ 4.0 = 40 tenths

2 =..... hundredths ⟶ 2.00 = 200 hundredths

Complete :

- 3 tenths = ...
- 8 hundredths = ...
- 17 tenths = ...
- 25 hundredths = ...
- two and three tenths= .....
- fifty and nine hundredths= .....
- forty seven hundredths= .....
- 4 + 0.07 + 0.1 = ...
- 2 + 80 + 0.03 = ...
- 2 = ...tenths
- 5 = ... Hundredths
- 4.2 = ...tenths
- 3.1 = ... hundredths

From the opposite model :



Standard form : _____

Word form : _____

Unit form : _____

Expanded form : _____

Final Revision

14 write decimal as fraction:

6.7 = ... as improper = ... as mixed

3.19 = ... as improper = ... as mixed

$2\frac{8}{10}$ = ... as decimal

$1\frac{3}{100}$ = ... as decimal

15 Equivalent decimals:

$0.4 = \frac{4}{10} = \frac{40}{100} = 0.40$

16 Comparing decimals:

1.5 ..... 9.3

0.5 ..... 0.12

0.35 ..... $\frac{4}{10}$

$\frac{9}{100}$ ..... $\frac{6}{10}$

$\frac{23}{10}$ ..... $2\frac{3}{10}$

$1\frac{74}{100}$ ..... $2\frac{8}{10}$

17 Adding decimals

a. $\frac{2}{10} + \frac{6}{10} =$ _____

b. $2\frac{32}{100} + \frac{46}{100} =$ _____

c. $4\frac{3}{10} + \frac{50}{100} =$ _____

d. $\frac{6}{10} + \frac{40}{100} =$ _____

e. $\frac{7}{10} + \frac{54}{100} =$ _____

Final Revision

18 Represent Data

a) Bar graph

favorite pets , sports , subjects , colors , foods , marks of student ...

b) Double Bar graph

Compare between 2 groups like boys and girls , math and science ...

c) Line plot

Show frequency of numerical data like age , length , weight
number of books , number of hours ...

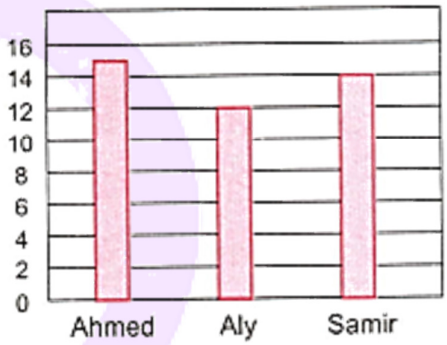
Answer each of the following.

a. Who read more than Samir ?

b. Who read the least pages ?

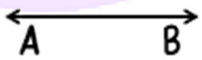
c. How many pages were read by all ?

d. the difference between Ahmed and Aly.

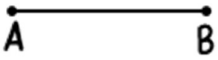


19 Lines

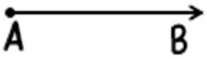
a) Line $\overleftrightarrow{AB}$ or $\overleftrightarrow{BA}$ has no end point



b) Line segment $\overline{AB}$ or $\overline{BA}$ has two end points

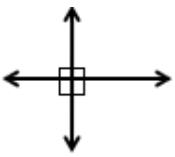


c) Ray $\overrightarrow{AB}$ has one end points



d) Parallel lines never intersect
number of intersecting points is zero

e) Perpendicular lines intersecting at one point
make 4 square corner



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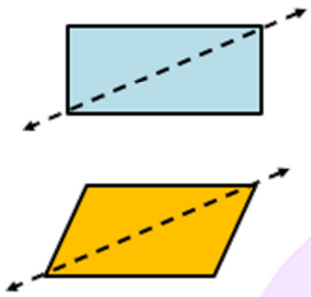
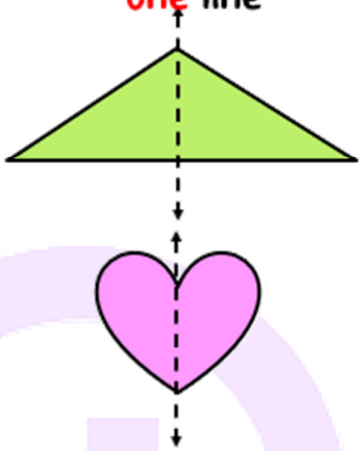
20 Symmetry

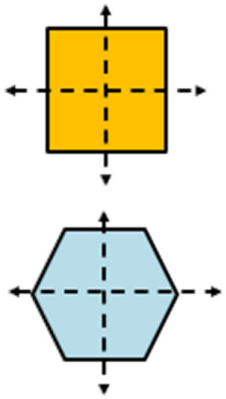
no line



one line



more one line



21 Type of triangle (angles)

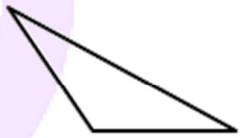
Acute angled

.... acute angle
.... obtuse angle
.... right angle

right angled

.... acute angle
.... obtuse angle
.... right angle

obtuse angled

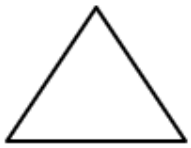


.... acute angle
.... obtuse angle
.... right angle

› any triangle has at least ..... acute angles.

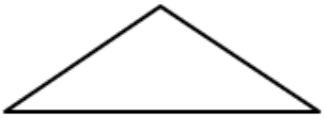
22 Type of triangle (sides)

equilateral



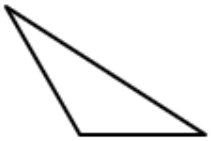
has ..... equal sides

isosceles



has ..... equal sides

scalene angled



has ..... equal sides

Final Revision

23 Quadrilaterals

1) Quadrilateral is a polygon has …… sides.

2) …… has one Pair of parallel sides.

3) …… has two Pairs of parallel sides.

4) …… has 4 right angles.

5) …… has 4 equal sides.

6) …… has 4 equal sides and 4 right angles.

7) ……. and ……..have 2 acute angles and 2 obtuse angles.

24 Type of Angles

1) Right angle its measure = ……^{o}

2) Straight angle its measure = ……^{o}

3) Acute angle its measure is more than …… , less than ……^{o}

4) Obtuse angle its measure is more than …… , less than ……^{o}

- The angle which its measure 95^{o} is ……. angle
- The angle which its measure 89^{o} is ……. angle

25 Circle

1) The measure of full circle = ……^{o}

2) The measure of $\frac{1}{2}$ (half) circle = ……^{o}

3) The measure of $\frac{1}{4}$ (quarter) circle = ……^{o}

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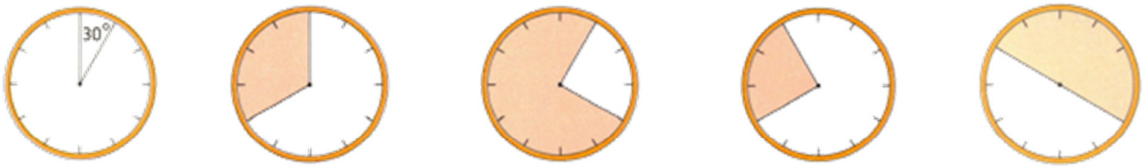
26 Find the degree :

1) By circle model



1 x 30
= 30

4 x 30
= 120

....

2) By fraction

$\frac{5}{12}$ of a circle measured = 5 x 30 = 150°

$\frac{2}{3}$ of a circle measured = 8 x 30 = 240°

$\frac{2}{3} = \frac{8}{12}$

Find: $\frac{1}{6}$ ..... $\frac{3}{4}$ .....

27 Find fraction of angle in circle :

1) The angle with measure 210° shows a fraction $\frac{7}{12}$

210 ÷ 30 = 7 part of 12

1) The angle with measure 120° shows a fraction $\frac{4}{12} = \frac{1}{3}$

120 ÷ 30 = 4 part of 12

Find: The fraction represent angle which measure 60° is .....

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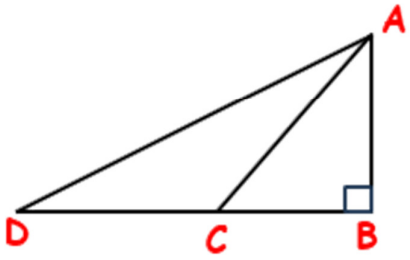
34 Naming Angle :

In the opposite figure find :



1) The obtuse angle
   - its vertex is ……
   - its sides …… , ……
   - its name …… or …… or ……

2) The right angle
   - its vertex is ……
   - its sides …… , ……
   - its name …… or …… or ……

Draw Angles :

1) An angle which measure 50^{o}

2) An angle which measure 120^{o}

3) An angle which measure 90^{o}

شرح خطوات الحل على قناة

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Final Revision

1 Fractions :

In the mixed number $3\frac{2}{5}$

the numerator is 2 , the denominator 5

, the whole number is 3

2 Mixed number and Improper :

$\frac{3}{8}$ Proper

$\frac{8}{8}$ One whole or Improper

$\frac{11}{8}$ Improper

$1\frac{3}{8}$ Mixed number

$4\frac{3}{5} = \frac{23}{5}$ as improper

$\frac{17}{3} = 5\frac{2}{3}$ as mixed number

3 Write fraction :

Two fifths = $\frac{2}{5}$

$\frac{3}{7}$ = Three seventh in word form

4 unit fraction :

The unit fraction of $\frac{5}{8}$ is $\frac{1}{8}$

Number of unit fraction in $\frac{4}{7}$ is 4

Number of unit fraction in two third is 2

Decompose $\frac{3}{4}$ to unit fractions $\frac{1}{4}+\frac{1}{4}+\frac{1}{4}$

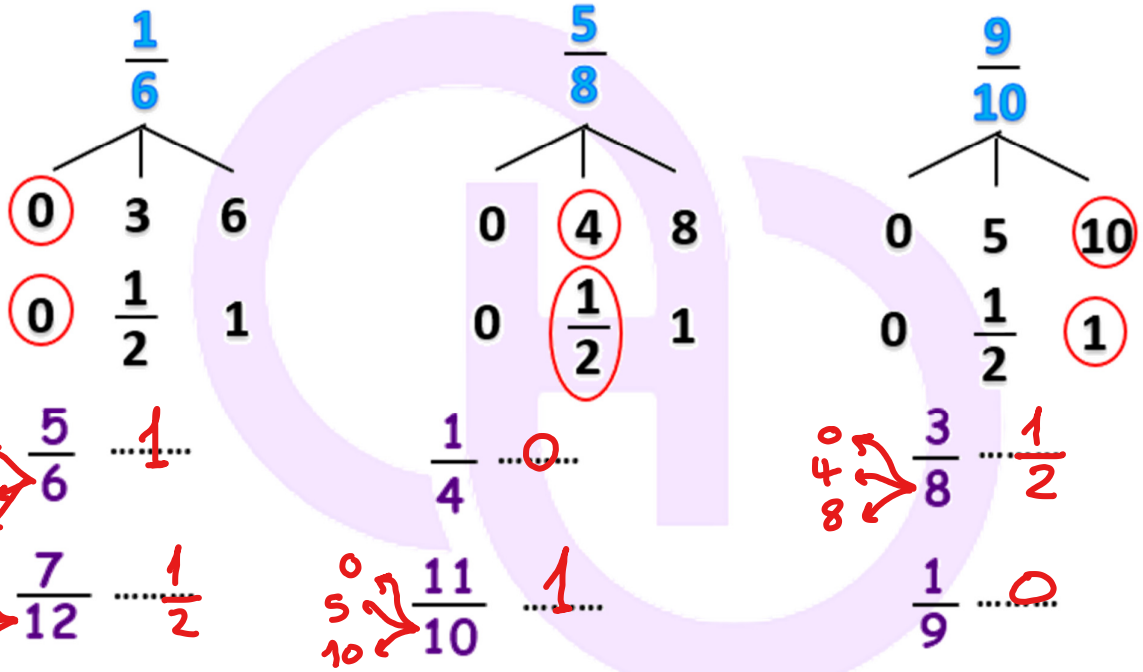
Final Revision

5 Whole number

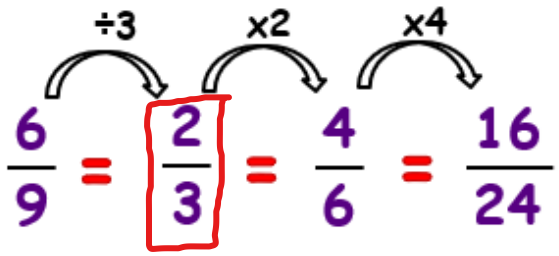
Number of **third** in **one** is ...3...

How many **fifths** in **three** ? 15

6 Benchmark fractions : 0 $\frac{1}{2}$ 1



7 Equivalent fraction :



$\frac{20}{5} = 4$	$\frac{12}{6} = 2$	$\frac{3}{7} = \frac{15}{35}$ (x5)	$\frac{15}{24} = \frac{5}{8}$ (÷3)

Final Revision

8 Comparing fractions :

Like denominator

$\frac{3}{7} \ldots\ldots < \frac{5}{7}$

Like numerator

$\frac{2}{5} \ldots\ldots > \frac{2}{9}$

Not Like

$\frac{3}{2} \ldots\ldots > \frac{5}{7}$

$\frac{8}{8} \ldots\ldots < \frac{4}{3}$

$\frac{7}{9} \ldots\ldots < \frac{2}{2}$

$\frac{6}{12} \ldots\ldots = \frac{1}{2}$

$\frac{4}{8} \ldots\ldots < \frac{3}{4}$

$\frac{3}{8} \ldots\ldots < \frac{5}{10}$

improper
One whole
proper
more
half
less

9 Arrange fraction :

➡ **ascending** $\frac{5}{9}$ (3), $\frac{3}{9}$ (1) smallest, $\frac{7}{9}$ (4), $\frac{4}{9}$ (2) (Like denominator)

➡ **ascending** $\frac{2}{5}$ (3), $\frac{2}{3}$ (4), $\frac{2}{11}$ (1) smallest, $\frac{2}{8}$ (2) (Like numerator) (Crazy)

➡ **descending** $\frac{4}{8}$ (4) half, $\frac{2}{6}$ (5) Less, $\frac{5}{4}$ (1) improper, $\frac{6}{10}$ (3) more, $\frac{7}{7}$ (2) One whole

Final Revision

10 Add and subtract

a) $3 + \frac{2}{7} = 3\frac{2}{7}$

b) $2\frac{1}{4} + 3\frac{3}{4} = 5\frac{4}{4} = 6$

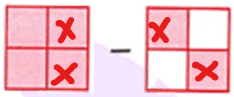
c) $5\frac{5}{6} + 1\frac{2}{6} = 6\frac{7}{6} = 7\frac{1}{6}$

d)  $= 2$

e) $3 - \frac{4}{5} = 2\frac{1}{5}$

f) $4\frac{5}{8} - 2\frac{1}{8} = 2\frac{4}{8} = 2\frac{1}{2}$

g) $2\frac{3}{7} - 1\frac{4}{7} = \frac{6}{7}$

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

11 Multiply fraction :

- Multiply by one $\frac{3}{4} \times \frac{2}{2}$ (one) $= \frac{6}{8}$ ✓ or $\frac{3}{4}$ ✓
- Multiply by whole number $\frac{2}{5} \times 35^{7} = 14$

a) $\frac{4}{7} \times \frac{3}{3} = \frac{4}{7}$

b) $\frac{6}{8} \times 24^{3} = 18$

12 Value and place value of decimals:

In the number 2.57

The digit 2 its place value is ones its value is 2

The digit 5 its place value is Tenths its value is 0.5

The digit 7 its place value is hundredth its value is 0.07

Final Revision

13 Write decimals:

9 tenths = 0.9 ⟶ Put point after one digit

127 hundredths = 1.27 ⟶ Put point after two digit

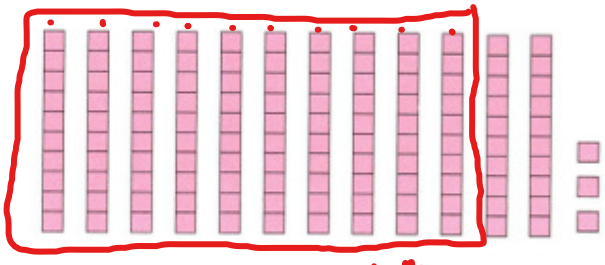
4 =..... tenths ⟶ 4.0 = 40 tenths

2 =..... hundredths ⟶ 2.00 = 200 hundredths

Complete :

- 3 tenths = 0.3
- 8 hundredths = 0.08
- 17 tenths = 1.7
- 25 hundredths = 0.25
- two and three tenths = 2.3
- fifty and nine hundredths = 50.09
- forty seven hundredths = 0.47
- 4 + 0.07 + 0.1 = 4.17
- 2 + 80 + 0.03 = 82.03
- 2 = 2.0 tenths
- 5.00 = 5.00 Hundredths
- 4.2 = 42 tenths
- 3.10 = 310 hundredths

From the opposite model :



Standard form : 1.23

Word form : one and Twenty Three hundredths

Unit form : 1 ones , 2 Tenths , Three hundredths

Expanded form : 1 + 0.2 + 0.03

Final Revision

14 write decimal as fraction:

6.7 = $\frac{67}{10}$ as improper = $6\frac{7}{10}$ as mixed

3.19 = $\frac{319}{100}$ as improper = $3\frac{19}{100}$ as mixed

$2\frac{8}{10}$ = 2.8 as decimal

$1\frac{3}{100}$ = 1.03 as decimal

15 Equivalent decimals:

$0.4 = \frac{4}{10} = \frac{40}{100} = 0.40$

16 Comparing decimals:

1.5 < 9.3

0.50 > 0.12

0.35 < $\frac{4}{10}$ 0.40

$\frac{9}{100} < \frac{60}{100}$

$\frac{23}{10} = 2\frac{3}{10}$ $2\frac{3}{10}$

$1\frac{74}{100} < 2\frac{8}{10}$

17 Adding decimals

a. $\frac{2}{10} + \frac{6}{10} = \frac{8}{10}$

b. $2\frac{32}{100} + \frac{46}{100} = 2\frac{78}{100}$

c. $4\frac{3}{10} + \frac{50}{100} = 4\frac{8}{10}$

d. $\frac{60}{100} + \frac{40}{100} = \frac{100}{100} = 1$

e. $\frac{70}{100} + \frac{54}{100} = \frac{124}{100} = 1\frac{24}{100}$

Final Revision

18 Represent Data

a) Bar graph

favorite pets , sports , subjects , colors , foods , marks of student ...

b) Double Bar graph

Compare between 2 groups like boys and girls , math and science ...

c) Line plot

Show frequency of numerical data like age , length , weight
number of books , number of hours ...

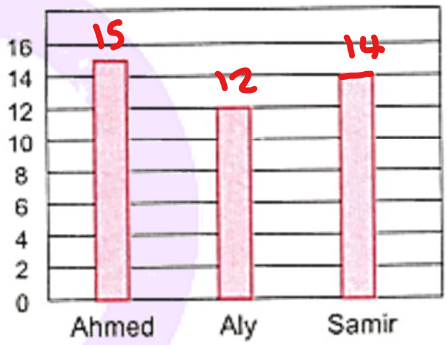
Answer each of the following.

a. Who read more than Samir ? Ahmed

b. Who read the least pages ? Aly

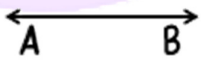
c. How many pages were read by all ? 41

d. the difference between Ahmed and Aly 15 - 12 = 3

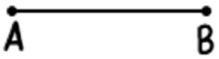


19 Lines

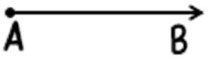
a) Line $\overleftrightarrow{AB}$ or $\overleftrightarrow{BA}$ has no end point



b) Line segment $\overline{AB}$ or $\overline{BA}$ has two end points

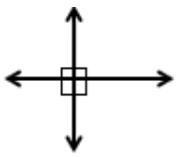


c) Ray $\overrightarrow{AB}$ has one end points



d) Parallel lines never intersect
number of intersecting points is zero

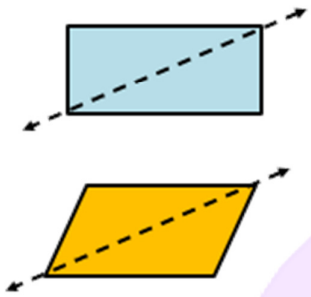
e) Perpendicular lines intersecting at one point
make 4 square corner



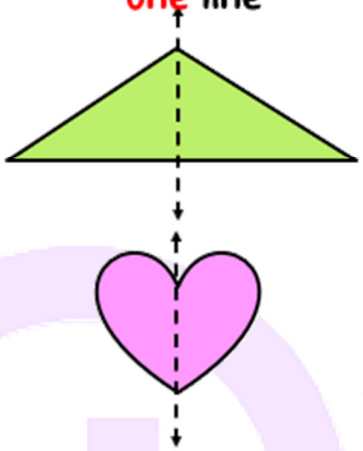
Final Revision

20 Symmetry

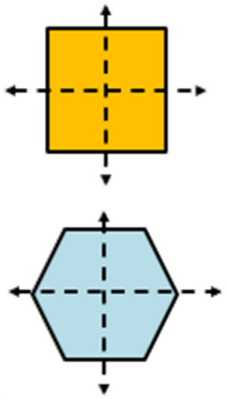
no line



one line



more one line

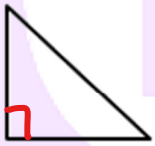


21 Type of triangle (angles)

Acute angled

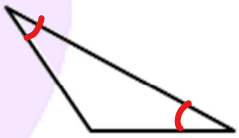
3 acute angle
0 obtuse angle
0 right angle

right angled



2 acute angle
0 obtuse angle
1 right angle

obtuse angled

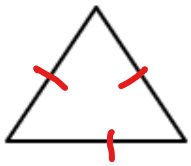


2 acute angle
1 obtuse angle
0 right angle

› any triangle has at least 2 acute angles.

22 Type of triangle (sides)

equilateral

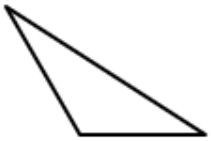


has 3 equal sides

isosceles

has 2 equal sides

scalene angled



has 0 equal sides

Final Revision

23 Quadrilaterals

1) Quadrilateral is a polygon has 4 sides.
2) Trapezium has one Pair of parallel sides.
3) Parallelogram has two Pairs of parallel sides.
4) rectangle has 4 right angles.
5) rhombus has 4 equal sides.
6) Square has 4 equal sides and 4 right angles.
7) rhombus and Parallelogram have 2 acute angles and 2 obtuse angles.

24 Type of Angles

1) Right angle its measure = 90°
2) Straight angle its measure = 180°
3) Acute angle its measure is more than 0 , less than 90°
4) Obtuse angle its measure is more than 90, less than 180°

- The angle which its measure 95° is obtuse angle
- The angle which its measure 89° is acute angle

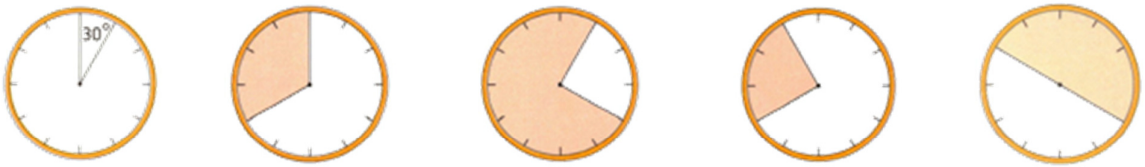
25 Circle

1) The measure of full circle = 360°
2) The measure of $\frac{1}{2}$ (half) circle = 180°
3) The measure of $\frac{1}{4}$ (quarter) circle = 90°

Final Revision

26 Find the degree :

1) By circle model



1 x 30 = 30 | 4 x 30 = 120 | 9x30 = 270° | 3x30 = 90° | 6x30 = 180°

2) By fraction

$\frac{5}{12}$ of a circle measured = 5 x 30 = 150°

$\frac{2}{3}$ of a circle measured = 8 x 30 = 240°

$\frac{2}{3} = \frac{8}{12}$ (x4)

Find: $\frac{1}{6} \overset{\times 2}{=} \frac{2}{12} = 60$ $\frac{3}{4} \overset{\times 3}{=} \frac{9}{12} = 9 \times 30 = 270$

27 Find fraction of angle in circle :

1) The angle with measure 210° shows a fraction $\frac{7}{12}$

210 ÷ 30 = 7 part of 12

1) The angle with measure 120° shows a fraction $\frac{4}{12} = \frac{1}{3}$

120 ÷ 30 = 4 part of 12

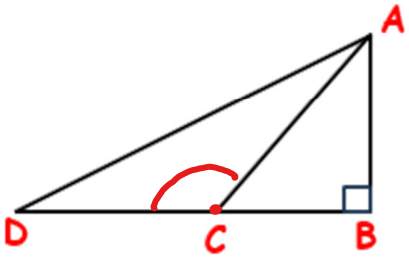
Find: The fraction represent angle which measure 60° is $\frac{2}{12} = \frac{1}{6}$

60 ÷ 30 = 2 parts

Final Revision

34 Naming Angle :

In the opposite figure find :



1) The obtuse angle
   - its vertex is ...C...
   - its sides CA , CD
   - its name ∠C or ∠ACD or ∠DCA

2) The right angle
   - its vertex is ...B...
   - its sides BA , BC
   - its name ∠B or ∠ABC or ∠CBA

Draw Angles :

1) An angle which measure 50^{o}

2) An angle which measure 120^{o}

3) An angle which measure 90^{o}

شرح خطوات الحل على قناة

Math For Kids: Hoda Ismail