

سلسلة الطارق في الرياضيات



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الرابع ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2026-06-21 22:52:42

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
رياضيات:

إعداد: طارق علي

التواصل الاجتماعي بحسب الصف الرابع



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الثالث

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هيكمل رابع عام ريفيل 2026

منصة طارق أكاديمي: للرياضيات

Tarek Academy

صف رابع (عام - ريفيل)

أستاذ الرياضيات

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Question1		2	سؤال
which fraction does this model represent ?			
A	$\frac{6}{4}$	☒ C	$\frac{6}{10}$
B	$\frac{60}{10}$	D	$\frac{6}{100}$

Question1		3	سؤال
Which fraction does this model represent ?			
A	$\frac{4}{10}$	C	$\frac{4}{100}$
B	$\frac{40}{10}$	☒ D	$\frac{40}{100}$

Question1		Question1	
Which fraction does this model represent ?		Which fraction does this model represent ?	
A	$\frac{8}{1}$	A	$\frac{2}{10}$
☒ B	$\frac{8}{10}$	B	$\frac{20}{10}$
C	$\frac{80}{10}$	C	$\frac{2}{100}$
D	$\frac{8}{100}$	☒ D	$\frac{20}{100}$



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Question1		Question1	
Complete the equation. $\frac{70}{100} = \frac{7}{\boxed{10}}$		What number makes the equation true? $\frac{\boxed{50}}{100} = \frac{50}{100}$	
A	1	A	5
B	10 ✓	B	50 ✓
C	100	C	6
D	1000	D	60
Question1		Question1	
Complete the equation. $\frac{2}{10} = \frac{\boxed{20}}{\boxed{100}}$		Complete the equation. $\frac{\boxed{6}}{\boxed{10}} = \frac{60}{100}$	
A	$\frac{2}{1}$ ✗	A	$\frac{6}{1}$
B	$\frac{2}{10}$ ✗	B	$\frac{6}{10}$ ✓
C	$\frac{2}{100}$	C	$\frac{60}{10}$
D	$\frac{20}{100}$ ✓	D	$\frac{60}{100}$

في الرياضيات

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Question1	9	سؤال
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Which of these are equivalent to a fraction with a denominator of 10?
Choose all that apply

A	$\frac{3}{100}$	C	$\frac{10}{100} = \frac{1}{10}$ ✓
B	$\frac{25}{100}$	D	$1\frac{40}{100} = 1\frac{4}{10}$ ✓

2	Understand Decimal Notation	Learn	136
		(1-4)	137

Question2		Question2	
Alan uses a board that is $1\frac{7}{10}$ meters long.. How can you express each length as a decimal?		Hannah uses a board that is $1\frac{56}{100}$ meters long. How can you express each length as a decimal?	
A	1.7 ✓ 1.7	A	10.56 10.56
B	1.07 $\div 10$	B	1.65 $\div 100$
C	7.1 نضع بـ 7.1	C	1.56 ✓ نضع بـ 1.56
D	10.7 بعد اعظم من 10	D	15.06 بعد 15 من 10

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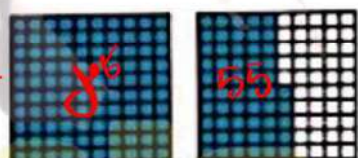
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Question2	
Which pair of fractions and decimals are equivalent ?	
$\frac{27}{100} = 0.27$ 	
A	$\frac{27}{10}$ and 0.27
B	$\frac{27}{100}$ and 0.27 ✓
C	$\frac{27}{100}$ and 2.7
D	$\frac{27}{100}$ and 2.07

Question2	
Which pair of fractions and decimals are equivalent ?	
$1 \frac{9}{10}$ 	
A	$1 \frac{9}{10}$ and 0.19
B	$1 \frac{9}{100}$ and 1.9
C	$1 \frac{9}{10}$ and 1.9 ✓
D	$1 \frac{9}{100}$ and 1.9

Question2	
Which pair of fractions and decimals are equivalent ?	
	
A	$1 \frac{55}{10}$ and 1.55
B	$\frac{55}{100}$ and 1.55
C	$1 \frac{55}{100}$ and 1.55 ✓
D	$1 \frac{55}{100}$ and 15.5

Question2	
Which pair of fractions and decimals are equivalent ?	
	
A	$2 \frac{5}{10}$ and 2.05
B	$2 \frac{5}{10}$ and 2.5 ✓
C	$2 \frac{5}{10}$ and 0.25
D	$2 \frac{5}{100}$ and 2.5



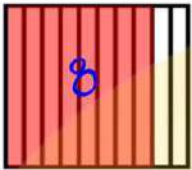
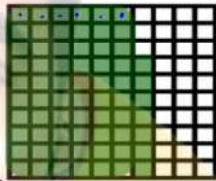
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3	Understand Decimal Notation	(5-12)	137 & 138
Question3 ١٥٥ - بعد الفين		Question3 ١٥ - بعد المئتين	
What number does the model represent? Write it as decimal. 		What number does the model represent? Write it as decimal. 	
A	0.8 ✓ = ٠.٨	A	0.57 = ٠.٦٧
B	0.08	B	0.67 ✓
C	1.8	C	0.76
D	1.08	D	6.07
Question3		Question3	
Complete the equation by writing as decimal. $\frac{9}{100} = \underline{\quad 0.09 \quad}$		Complete the equation by writing a fraction ,or mixed number. $\underline{\quad 1 \frac{9}{100} \quad} = 0.9$	
A	0.9	A	1 $\frac{9}{100}$ بعد المئتين
B	0.09 ✓	B	1 $\frac{9}{10}$ $\frac{9}{10}$
C	1.9	C	$\frac{9}{100}$
D	1.09	D	$\frac{9}{10}$ ✓

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Question3		Question3	
Complete the equation by writing a fraction ,or mixed number.		Complete the equation by writing a fraction ,or mixed number.	
$\underline{\hspace{2cm}} = 0.6$		$\underline{\hspace{2cm}} = 1.04$ بعد الفين	
A	$\frac{6}{100}$	A	$\frac{14}{100}$
B	$\frac{6}{10}$ ✓	B	$1\frac{4}{10}$
C	$1\frac{6}{10}$	C	$1\frac{14}{100}$
D	$1\frac{6}{100}$	D	$1\frac{4}{100}$ ✓

Question3		السؤال	
A newborn puppy weighs $\frac{3}{10}$ kilogram. What is the weight of the puppy written as a decimal?		وزن جرو حديث الولادة $\frac{3}{10}$ كيلوغرام. ما هو وزن الجرو مكتوباً كعدد عشري؟	
A	0.03	C	0.3 ✓
B	3.00	D	0.003

* divided by $\frac{10}{1}$ put point after

* divided by $\frac{100}{2}$ put point after



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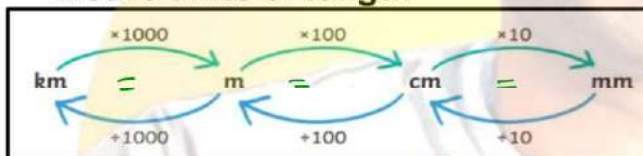


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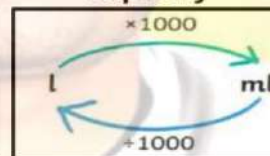
Question3		سؤال	
A computer programmer is writing code for a game. A balloon appears in the game for $1\frac{2}{100}$ seconds. What decimal represents this time? <i>بعد الفين</i>		مبرمج حاسوب يكتب شيفرة للعبة. يظهر بالون في اللعبة لمدة ثانية واحدة العدد العشري الذي يمثل هذه المدة؟	
A	2.1	C	1.2
B	1.02 ✓	D	1.002
4	Relate Metric Units	Learn	162
		(1-9)	163

يجب على الطالب حفظ الوحدات عن غيب وتدريب عليها

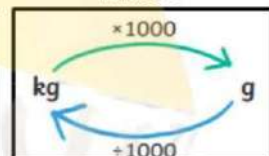
Metric units of length



Metric units of capacity



Metric units of mass



REMEMBER

Big → small

small → Big

- When we convert from larger unit to smaller, we **Multiply**.
- When we convert from smaller unit to larger, we **Divide**.

Question4	learn	سؤال
local artist painted two murals. The board street mural is 5 meters long The central Avenue mural is 485 centimetres long. Which mural is longer?		رسم فنان محلي جداريتين. يبلغ طول جدار الشارع الخشبي 5 أمتار، بينما يبلغ طول جدار الجادة المركزية 485 سم. أي جداريتين أطول؟
Big → Small m → cm x 100		B → S kg → g x 1000

Question4	Question4
How can you convert the metric units? 12 meters = <u>1200</u> Centimeters	How can you convert the metric units? 8 kilograms = <u>8000</u> grams
A 120	A 80
B 1,200 ✓	B 800
C 12,000	C 8,000 ✓
D 120,000	D 80,000



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سلسلة الطارق في الرياضيات

How can you convert the metric units?

14 centimeters = ~~140~~ millimeters

- | | | |
|---|---------|--------------|
| A | 140 ✓ | $cm = 10 mm$ |
| B | 1,400 | 140 |
| C | 14,000 | |
| D | 140,000 | |

How can you convert the metric units?

4 centimeters = ... millimeters

- | | | |
|---|--------|--------------|
| A | 40 ✓ | $cm = 10 mm$ |
| B | 400 | 40 |
| C | 4,000 | |
| D | 40,000 | |

Question4

What number makes the equation true?

10 liters = ~~10,000~~ milliliters

- | | | |
|---|----------|---------------|
| A | 100 | $L = 1000 mL$ |
| B | 1,000 | |
| C | 10,000 ✓ | |
| D | 100,000 | |

Question4

What number makes the equation true?

25 liters = ~~25,000~~ milliliters

- | | | |
|---|----------|---------------|
| A | 250 | $L = 1000 mL$ |
| B | 2500 | |
| C | 25,000 ✓ | |
| D | 250,000 | |

Question4

How can you convert the metric units?

6 meters = ~~6,000~~ millimeters

- | | | |
|---|---------|---------------|
| A | 60 | $m = 1000 mm$ |
| B | 600 | |
| C | 6,000 ✓ | |
| D | 60,000 | |

Question4

How can you convert the metric units?

200 meters = ~~200,00~~ centimeters

- | | | |
|---|----------|--------------|
| A | 20 | $m = 100 cm$ |
| B | 2,000 | |
| C | 20,000 ✓ | |
| D | 200,000 | |

Question4

How many milliliters of water will fill the tea kettle?

 $L = 1000 mL$ 

كم مليلترًا من الماء ستملأ غلاية الشاي؟

- | | | | | |
|---|-------|------|---|-----------|
| A | 20 ml | 2000 | C | 2000ml ✓ |
| B | 200ml | | D | 20,000 ml |



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سلسلة الطارق في الرياضيات

Units of weight

يجب على الطالب حفظ الوحدات عن غيب وتدريب عليها

1 pound (lb) = 16 ounces (oz)

1 ton = 2,000 pounds (lb)

Question5	learn	سؤال
Teri bought 3 pounds of flour to make rolls . She uses 4 ounces of flour to make each roll. How many rolls can Teri make?		شترت تيري 3 أرطال من الدقيق لصنع اللفائف. تستخدم 4 أونصات من الدقيق لصنع كل لفعة. كم عدد اللفائف التي تستطيع تيري صنعها؟
A	10 $3 \times 16 = 3 \times 4$	C 24
B	12 ✓ $4 = 12$	D 48

Question5	Question5
What number makes the equation true? 5 pounds = ... ounce	What number makes the equation true? 8 tons = ... pounds
A 100 5×16	A 16 8×2000
B 80 ✓	B 160
C 21	C 1600 16000
D 16	D 16,000 ✓

Question5	Question5
How can you convert the metric units? 4 pounds = ... ounce	How can you convert the metric units? 5 tons = ... pounds
A 16 4×16	A 10 5×2000
B 32 $= 64$	B 1,000
C 48	C 10,000 ✓ 10000
D 64 ✓	D 100,000



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سلسلة الطارق في الرياضيات

What number makes the equation true?

..... Ounce = 6 pounds

A	32	6×16
B	48	9×6
C	64	
D	96	✓

What number makes the equation true?

..... pounds = 7 tons

A	14	7×2000
B	140	14000
C	1400	
D	14,000	✓

Question5

What number makes the equation true?

10 pounds = -----ounces

A	16	10×16
B	160	✓
C	32	160
D	320	

Question5

How can you convert the metric units?

20 tons = -----pounds

A	40	20×2000
B	400	
C	4000	40000
D	40,000	✓

Question5

Mike bought 7 pounds of tomatoes to make a batch of pizza sauce. What is the weight of tomatoes in ounces?

A	48 ounces
B	64 ounces
C	112 ounces
D	128 ounces

10. There are 160 ounces of potatoes in a 10-pound bag. Why is the number of ounce greater than the number of pounds?

$$10 \text{ Pound} = 10 \times 16 = 160 \text{ ounces}$$

$$1 \frac{1}{2} \times 16 = 16 + 8 = 24$$

Question5

11. A minivan weighs 3 tons. A truck weighs 8000 pounds. Which vehicle weighs more? Explain.

$$* 3 \times 2000 = 6000 \text{ pounds}$$

8000 pounds is more than 3 tons

Question5

Jack bought $1 \frac{1}{2}$ pounds of bananas. What is the weight of the bananas in ounces?

A	16 ounces
B	18 ounces
C	20 ounces
D	24 ounces



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سلسلة الطارق في الرياضيات

Units of Capacity

يجب على الطالب حفظ الوحدات عن غيب وتدريب عليها



Question6	learn	Question6	learn
Leah made 5 quarts of sauce. She will store all the sauce in 1 pint containers. How many 1-pint containers could she fill?	$5 \times 2 = 10$	Leah made 5 quarts of sauce. She will store all the sauce in 1 cups containers. How many 1-cups containers could she fill?	$quart = 4 cups$ $5 \times 4 = 20$
A 5		A 5	
B 10 ✓		B 10	
C 15	$quart = 2 pint$	C 15	
D 20		D 20 ✓	

Complete the table: cups $\times \frac{8}{1}$ fl-oz quarts $\times 2$ pint

Cups (c)	Fluid Ounces (fl oz)
1	8
2 $\times 8$	16
3 $\times 8$	24
4 $\times 8$	32
5 $\times 8$	40

Quarts (qt)	Pints (pt)
1	2
2 $\times 2$	4
3 $\times 2$	6
4 $\times 2$	8
5 $\times 2$	10

Question6	What number makes the equation true?	Question6	What number makes the equation true?
6 cups = ... fluid ounces	$6 \times 8 = 48$	8 quarts = ... pints	$8 \times 2 = 16$
A 48 ✓		A 12	
B 64		B 16 ✓	
C 112		C 18	
D 128		D 24	



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سلسلة الطارق في الرياضيات



Question6

What number makes the equation true?

..... quarts = 4 gallons

A	8	gallon = 4 quarts
B	12	
C	16 ✓	$4 \times 4 = 16$
D	32	

Question6

How can you convert the metric units?

..... cups = 7 pints

A	12	1 pint $\times 2 \rightarrow$ cups
B	14 ✓	
C	28	$1 \times 2 = 14$
D	56	

7

Convert Units of Time

Learn

175

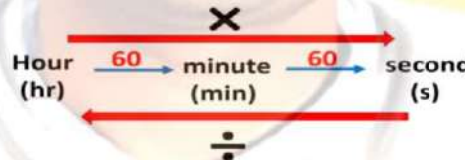
(1-8), 13, 14

175 & 176

$$*h \xrightarrow{\times 60} \text{min}$$

Units of Capacity

$$*min \xrightarrow{\times 60} s$$



$$*h \xrightarrow{\times 3600} s$$

Question7

learn

Doras family drove $3\frac{1}{2}$ hours to get to the beach. How many minutes did Doras family spend driving?

A	30	$h \xrightarrow{\times 60} \text{min}$
B	180	
C	210 ✓	$3\frac{1}{2} \times 60 = 180 + 30$
D	250	$= 210$

Question7

What number makes the equation true?

5 hours = minutes

A	180	5×60
B	240	
C	300 ✓	300
D	350	

Question7

What number makes the equation true?

10 minutes = seconds

A	60	10×60
B	240	
C	300	$= 600$
D	600 ✓	

Question7

What number makes the equation true?

7 hours = minutes

A	180	7×60
B	240	$= 420$
C	350	
D	420 ✓	



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Question7 learn

What number makes the equation true?

6 minutes = seconds

A 60 6×60

B 180 $= 360$

C 240

D 360 ✓

Question7

What number makes the equation true?

hours = 360 minutes

A 6 ✓ min $\xrightarrow{60}$ h

B 12 $\frac{360}{60} = 6$

C 18 $\frac{360}{60} = 6$

D 60 $\frac{360}{60} = 6$

Question7

What number makes the equation true?

hours = 900 minutes

A 10 min $\xrightarrow{60}$ h

B 12

C 15 ✓ $\frac{900}{60} = 15$

D 18

Question7

Salma volunteered for 4 hours last weekend. How many minutes did Salma volunteer?

A 180 minutes h $\xrightarrow{60}$ min

B 240 minutes ✓

C 280 minutes 4×60

D 320 minutes 240

Question7

When a timer reads 8 minutes, that is 480 seconds. Why is the number of seconds greater than the number of minutes?

min $\xrightarrow{60}$ s $8 \times 60 = 480$ seconds

Question7

Stacy reads a page in 3 minutes. How many seconds does it take?

A 100 seconds min $\xrightarrow{60}$ s

B 180 seconds ✓ 3×60

C 240 seconds 1800

D 320 seconds

Question7

Diane used a timer to boil an egg for $9\frac{1}{2}$ minutes. For how many seconds did she boil the egg?

A 360 seconds min $\xrightarrow{60}$ s

B 450 seconds $9\frac{1}{2} \times 60$

C 540 seconds $540 + 30$

D 570 seconds ✓ $= 570$



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Question8	Learn	سؤال
The top shelf on Chucks bookcase can hold a maximum of 5000 The picture frame and the plants have a total mass of 3 kilograms and 245grams. Chuck wants add two vases to shelf. What is the greatest possible mass of two vases in grams.		تسع الرف العلوي لمكتبة تشاك لـ 5000 كتاب كحد أقصى. يبلغ إجمالي كتلة إطار الصورة والنباتات 3 كيلو غرامات و 245 غراماً. يريد تشاك إضافة مزهريتين إلى الرف. ما أكبر كتلة ممكنة للمزهريتين بالغرام؟
A 1755	$3 \times 1000 + 245$	C 3245 ✓
B 3000	$3000 + 245$	D 4245

Question8	Learn	سؤال
Lacey walks $1\frac{1}{2}$ kilometers to school. Hsu walks 2 kilometers to school. How many meters do Lacey and Hsu walk in all? → add	$km \xrightarrow{1000} m$	كيلومتر واحد إلى المدرسة. $1\frac{1}{2}$ تمشي لاسي مسافة يمشي هسو 2 كيلومتر. كم متراً يمشي لاسي وهسو معاً؟
A 3kilometers	$1\frac{1}{2} \times 1000 + 2 \times 1000$	C $3\frac{1}{2}$ kilometers 3500m
B 3000 kilometers		D 3500 meters ✓

Question8	Learn	سؤال
Jeanette made 6 liters of soup. She serves 5,500 millilitres of the soup . How many millilitres of the soup remain? → subtract		أعدت جانيت ستة لترات من الحساء. قُدمت 5500 مليلتر منه. كم مليلترًا متبقياً؟
A 500 millilitres ✓		C 600milliliters $6000 - 5500$
B 5000 millilitres		D 6000 milliliters = 500

Question8	Learn	سؤال
A restaurant owner buys 8 sacks of potatoes. Each sack of potatoes has a mass of 5 kilograms. How many grams of potatoes does he buy? $kg = 1000g$		اشترى صاحب مطعم 8 أكياس بطاطس. وزن كل كيس 5 كيلو غرامات. كم غراماً من البطاطس يشتري؟
A 40 kilograms		C 400 grams = 40 000
B 4000grams		D 40,000grams ✓



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سلسلة الطارق في الرياضيات

Question9	learn	سؤال
Danesh and Phillipe will build a sand box. The area of the sandbox will be <u>25 square feet</u>. What will be the perimeter of the sandbox?		سيبنى دانش وفيليب صندوقًا رمليًا. مساحة الصندوق <u>25</u> قدمًا مربعًا. ما محيطه؟
A	4 ft	
B	31ft	
C	20ft	
D	22ft	

Question9	
A billboard has the following measurements.	
What is the length of the billboard?	
A	10 yd
B	12 yd ✓ $l = \frac{48}{4} = 12$
C	52yd
D	192 yd

Question9	
A billboard has the following measurements.	
What is the perimeter of the billboard?	
A	16 yd
B	20yd $P = 2(l + w)$
C	32yd ✓ $= 2 \times 16$
D	52yd $= 32$

Question9	
A lap pool has the following measurements.	
What is the width of the lap pool?	
A	10 ft ✓ $w = \frac{300}{30} = 10$
B	12 ft $w = \frac{300}{30} = 10$
C	100ft
D	270 ft

Question9	
A lap pool has the following measurements.	
What is the perimeter of the lap pool?	
A	10 ft
B	40ft $P = 2(l + w)$
C	80ft ✓ $= 2(30 + 10)$
D	90ft $= 2 \times 40 = 80$



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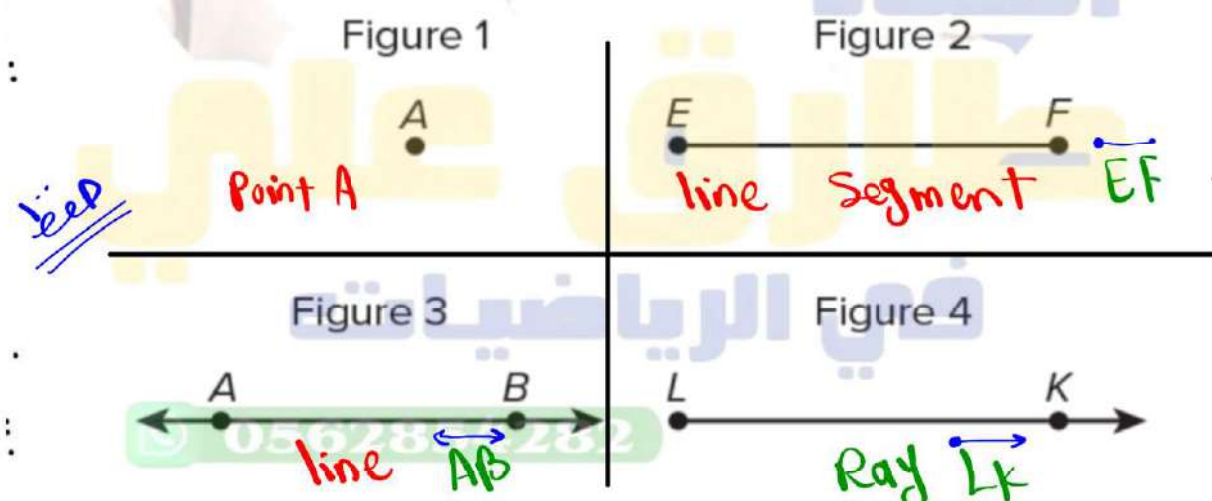
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Question9		Question9	
A rectangular koi pond has an area of 12 square feet and a width of 2 feet. What is the length?		A rectangular koi pond has an area of 12 square feet and a width of 2 feet. What is the perimeter? $= 2(l + w)$	
A	5 feet	A	8 feet $= 2(6 + 2)$
B	6 feet ✓ $l = 6$	B	16 feet ✓ $= 2 \times 8$
C	10 feet	C	80 feet $= 16$
D	14 feet	D	90 feet
Question9		Question9	
A rectangular rug has an area of 15 square feet and a width of 3 feet. What is the length?		A rectangular rug has an area of 15 square feet and a width of 3 feet. What is the perimeter? $= 2(l + w)$	
A	4 feet $l = \frac{15}{3} = 5$	A	8 feet $2(5 + 3)$
B	5 feet ✓	B	14 feet
C	6 feet	C	16 feet ✓ 2×8
D	45 feet	D	45 feet $= 16$
10	Understand Lines, Line Segments, and Rays	Learn	216
		(1-6)	217

How can you name the figure?



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Select the shape that represent a line.

A	
B	
C	
D	

Question10

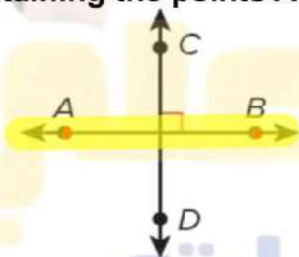
How can you name the figure?



A	Line segment
B	Line (Correct answer)
C	Ray
D	Point

Question10

What name best describes the part of figure Containing the points A and B ?



A	Line segment
B	Line (Correct answer)
C	Ray
D	Point

How can you name the figure?



A	Line segment
B	Line
C	Ray (Correct answer)
D	Point

Question10

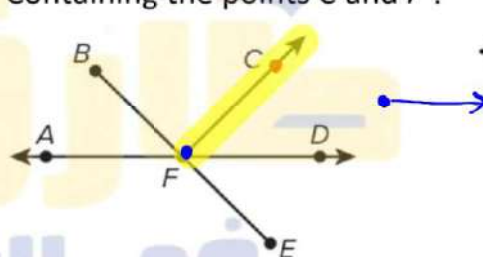
How can you name the figure?



A	Line segment (Correct answer)
B	Line
C	Ray
D	Point

Question10

What name best describes the part of figure Containing the points C and F ?



A	Line segment
B	Line
C	Ray (Correct answer)
D	Point



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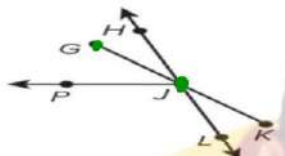
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Question10

What name best describes the part of figure Containing the points G and J ?



A Line segment ✓

B Line

C Ray

D Point

line Segment



Ray



line



11

Classify Angles

Learn

220

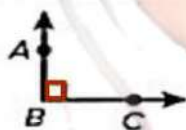
(1-6)

221

Question10

learn

Classify the angle



A Right angle ✓

B Acute angle

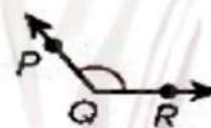
C Obtuse angle

D None of these

Question10

learn

Classify the angle



A Right angle

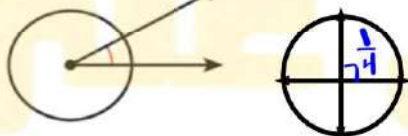
B Acute angle

C Obtuse angle ✓

D None of these

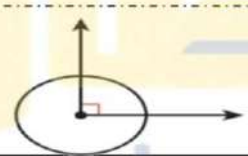
Question11

How can you describe the amount of rotation?

A Rotation is less than $\frac{1}{4}$ of a whole circleB Rotation is equal than $\frac{1}{4}$ of a whole circleC Rotation is greater than $\frac{1}{4}$ of a whole circleD Rotation is equal than $\frac{1}{2}$ of a whole circle

Question11

How can you describe the amount of rotation?

A Rotation is less than $\frac{1}{4}$ of a whole circleB Rotation is equal than $\frac{1}{4}$ of a whole circle .C Rotation is greater than $\frac{1}{4}$ of a whole circleD Rotation is equal than $\frac{1}{2}$ of a whole circle

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Classify the angle

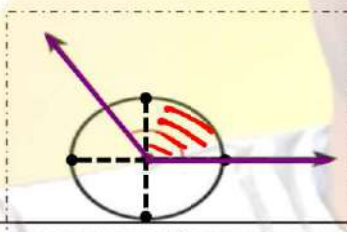


- | | |
|---|---------------|
| A | Right angle |
| B | Acute angle ✓ |
| C | Obtuse angle |
| D | None of these |

Question11

How can you describe the amount of rotation?

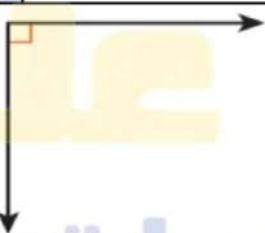
دور



- | | |
|---|--|
| A | Rotation is less than $\frac{1}{4}$ of a whole circle |
| B | Rotation is equal than $\frac{1}{4}$ of a whole circle |
| C | Rotation is greater than $\frac{1}{4}$ of a whole circle |
| D | Rotation is equal than $\frac{1}{2}$ of a whole circle |

Question11

Classify the angle



- | | |
|---|---------------|
| A | Right angle ✓ |
| B | Acute angle |
| C | Obtuse angle |
| D | None of these |

Classify the angle

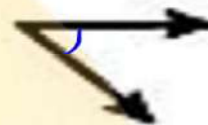


- | | |
|---|---------------|
| A | Right angle ✓ |
| B | Acute angle |
| C | Obtuse angle |
| D | None of these |

Question11

learn

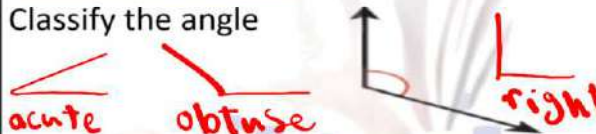
Classify the angle



- | | |
|---|---------------|
| A | Right angle |
| B | Acute angle ✓ |
| C | Obtuse angle |
| D | None of these |

Question11

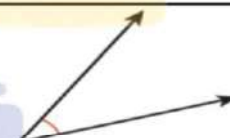
Classify the angle



- | | |
|---|----------------|
| A | Right angle |
| B | Acute angle |
| C | Obtuse angle ✓ |
| D | None of these |

Question11

Classify the angle



- | | |
|---|---------------|
| A | Right angle |
| B | Acute angle ✓ |
| C | Obtuse angle |
| D | None of these |



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What is the measure of the angle? Use a protractor to measure



- | | |
|---|---------------|
| A | 10° |
| B | 70° |
| C | 120° |
| D | 170° ✓ |

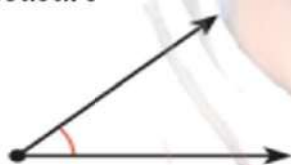
What is the measure of the angle? Use a protractor to measure



- | | |
|---|-------------|
| A | 8° ✓ |
| B | 50° |
| C | 90° |
| D | 120° |

Question12

What is the measure of the angle? Use a protractor to measure



- | | |
|---|--------------|
| A | 43° ✓ |
| B | 70° |
| C | 90° |
| D | 160° |

Question12

What is the measure of the angle? Use a protractor to measure

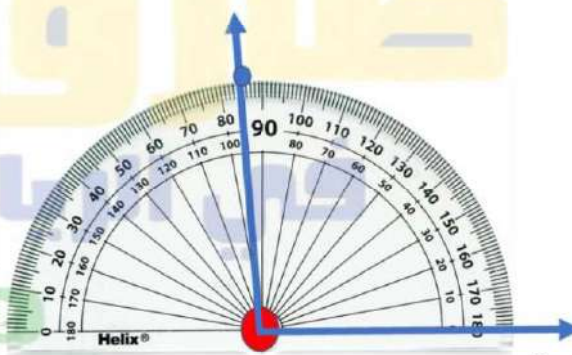


- | | |
|---|--------------|
| A | 10° |
| B | 74° ✓ |
| C | 90° |
| D | 130° |

Question12

What is the measure of the angle? Use a protractor to measure

- | | |
|---|--------------|
| A | 80° |
| B | 90° |
| C | 95° ✓ |
| D | 160° |



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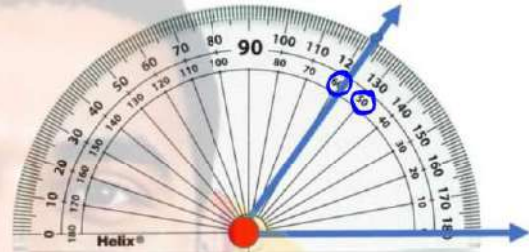
سلسلة الطارق في الرياضيات

What is the measure of the angle? Use a protractor to measure



- A 80°
- B 90°
- C 104° ✓
- D 160°

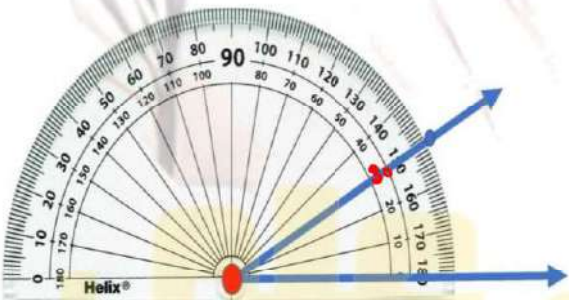
What is the measure of the angle? Use a protractor to measure



- A 40°
- B 58° ✓
- C 90°
- D 120°

Question12

What is the measure of the angle? Use a protractor to measure the angle



- A 20°
- B 30° ✓
- C 40°
- D 90°

Question12

Alex drew an obtuse angle. Which of the following could be its measure?

أكثر من ٩٠ وأقل من ١٨٠

- A 78°
- B 90°
- C 34°
- D 127° ✓

*obtuse

أقل من ٩٠ *acute
٩٠ *Right
أكثر من ٩٠ وأقل من ١٨٠



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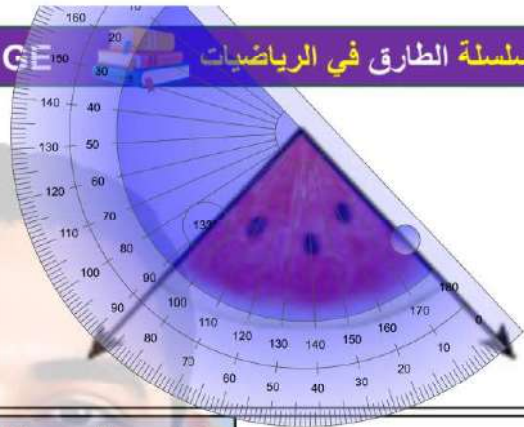
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Yuma cuts a watermelon slice into 2 pieces.

What could be the angle measurement of each piece? Use protector to find the answer

88

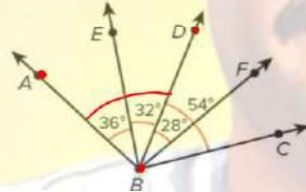


Question13

What are the measurements of angles ABD?

Big → +

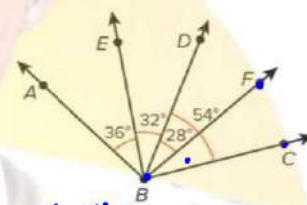
Small → -



- | | | |
|---|------|----------------|
| A | 26° | $36 + 32 = 68$ |
| B | 68° | ✓ |
| C | 86° | |
| D | 122° | |

Question13

What are the measurements of angles FBC?

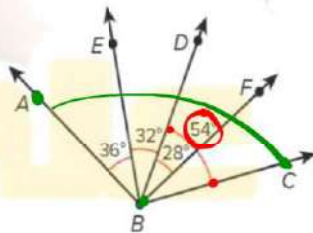


- | | | | |
|---|------|---|----------------|
| A | 26° | ✓ | $54 - 28 = 26$ |
| B | 68° | | |
| C | 86° | | |
| D | 122° | | |

Question13

What are the measurements of angles ABC?

+

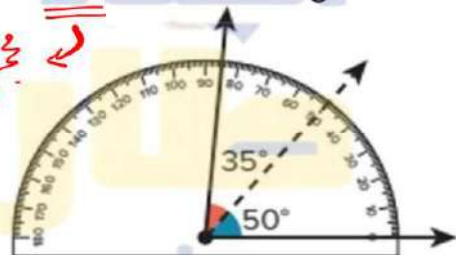


- | | | |
|---|------|------------------|
| A | 26° | $36 + 32 + 54 =$ |
| B | 68° | 122 |
| C | 86° | |
| D | 122° | ✓ |

Question13

What is the sum of the two angles?

مجموع



- | | | |
|---|-----|-------------|
| A | 75° | $35 + 50 =$ |
| B | 80° | 85 |
| C | 85° | ✓ |
| D | 90° | |



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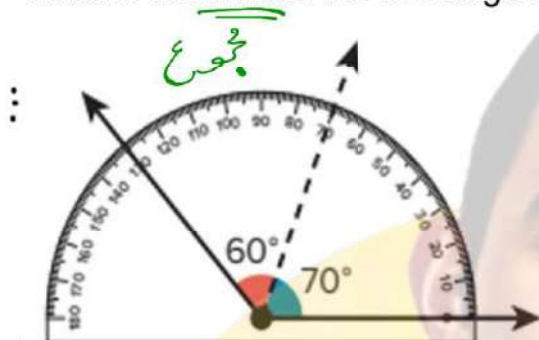
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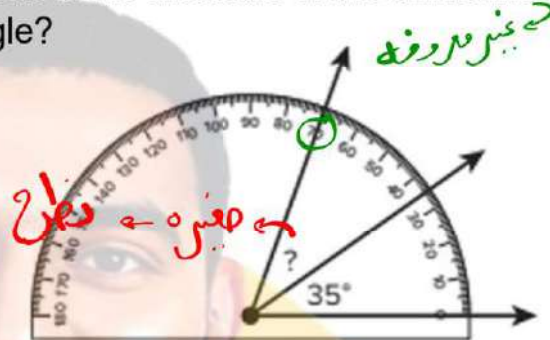
سلسلة الطارق في الرياضيات

What is the sum of the two angles?



- | | | |
|---|------|-----------|
| A | 10° | $60 + 70$ |
| B | 90° | $= 130$ |
| C | 120° | |
| D | 130° | |

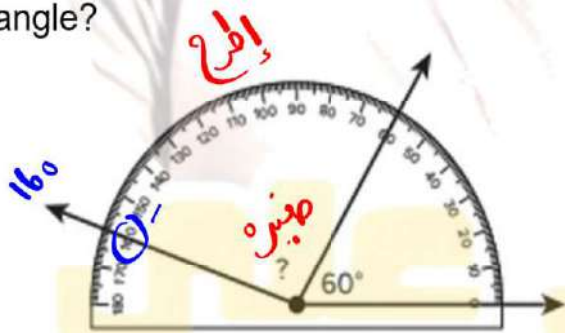
What is the measure of the unknown angle?



- | | | |
|---|-----|------------|
| A | 75° | $100 - 35$ |
| B | 70° | $= 35$ |
| C | 35° | ✓ |
| D | 25° | |

Question13

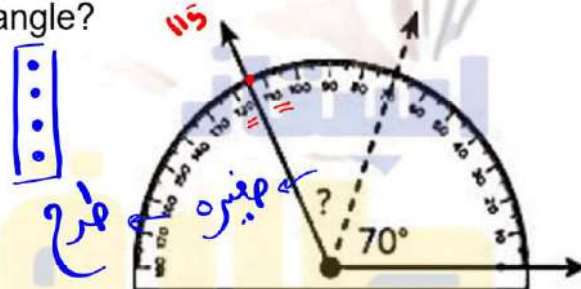
What is the measure of the unknown angle?



- | | | |
|---|------|------------|
| A | 90° | $160 - 60$ |
| B | 100° | ✓ $= 100$ |
| C | 160° | |
| D | 25° | |

Question13

What is the measure of the unknown angle?



- | | | |
|---|------|------------|
| A | 40° | $115 - 70$ |
| B | 45° | ✓ $= 45$ |
| C | 115° | |
| D | 145° | |



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Learn

Edgar is classifying quadrilaterals.

How could Edgar use the properties of the quadrilaterals to classify them?



You can classify quadrilaterals based on their shared attributes.

Some quadrilaterals have neither parallel nor perpendicular lines.	A quadrilateral with exactly one pair of parallel lines is a trapezoid .	A quadrilateral with two pairs of parallel lines is a parallelogram .
A parallelogram with 4 equal sides is a rhombus .		
A parallelogram with 4 right angles and 2 pairs of equal sides is a rectangle .		
A parallelogram with 4 right angles and 4 equal sides is a square .		

Question14		Question14	
Which attributes describes a rhombus ?		Which attributes describes a parallelogram ?	
square متساوي الساقين			
A	A quadrilateral with two pairs of parallel lines	A	A quadrilateral with <u>two pairs of parallel lines</u>
B	A quadrilateral with exactly one pair of parallel lines	B	A quadrilateral with exactly one pair of parallel lines
C	A parallelogram with 4 equal sides	C	A parallelogram with 4 equal sides
D	A parallelogram with 4 right angles and 4 equal sides	D	A parallelogram with 4 right angles and 4 equal sides



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Which attributes describes a Trapezoid?  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>A quadrilateral with two pairs of parallel lines</td> </tr> <tr> <td style="text-align: center;">B</td> <td>A quadrilateral with exactly one pair of parallel lines</td> </tr> <tr> <td style="text-align: center;">C</td> <td>A parallelogram with 4 equal sides</td> </tr> <tr> <td style="text-align: center;">D</td> <td>A parallelogram with 4 right angles and 4 equal sides</td> </tr> </table>	A	A quadrilateral with two pairs of parallel lines	B	A quadrilateral with exactly one pair of parallel lines	C	A parallelogram with 4 equal sides	D	A parallelogram with 4 right angles and 4 equal sides	Which attributes describes a rectangle ?  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>A quadrilateral with two pairs of parallel lines</td> </tr> <tr> <td style="text-align: center;">B</td> <td>A parallelogram with 4 right angles and 2 pairs of equal sides</td> </tr> <tr> <td style="text-align: center;">C</td> <td>A parallelogram with 4 equal sides</td> </tr> <tr> <td style="text-align: center;">D</td> <td>A parallelogram with 4 right angles and 4 equal sides</td> </tr> </table>	A	A quadrilateral with two pairs of parallel lines	B	A parallelogram with 4 right angles and 2 pairs of equal sides	C	A parallelogram with 4 equal sides	D	A parallelogram with 4 right angles and 4 equal sides
A	A quadrilateral with two pairs of parallel lines																
B	A quadrilateral with exactly one pair of parallel lines																
C	A parallelogram with 4 equal sides																
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A	A quadrilateral with two pairs of parallel lines																
B	A parallelogram with 4 right angles and 2 pairs of equal sides																
C	A parallelogram with 4 equal sides																
D	A parallelogram with 4 right angles and 4 equal sides																
Question14 Which attributes describes a square?  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>A quadrilateral with two pairs of parallel lines</td> </tr> <tr> <td style="text-align: center;">B</td> <td>A quadrilateral with exactly one pair of parallel lines</td> </tr> <tr> <td style="text-align: center;">C</td> <td>A parallelogram with 4 equal sides</td> </tr> <tr> <td style="text-align: center;">D</td> <td>A parallelogram with 4 right angles and 4 equal sides</td> </tr> </table>	A	A quadrilateral with two pairs of parallel lines	B	A quadrilateral with exactly one pair of parallel lines	C	A parallelogram with 4 equal sides	D	A parallelogram with 4 right angles and 4 equal sides	Question14 circle the word that can name the shape  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>square</td> </tr> <tr> <td style="text-align: center;">B</td> <td>rhombus ✓</td> </tr> <tr> <td style="text-align: center;">C</td> <td>Rectangle</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Trapezoid</td> </tr> </table>	A	square	B	rhombus ✓	C	Rectangle	D	Trapezoid
A	A quadrilateral with two pairs of parallel lines																
B	A quadrilateral with exactly one pair of parallel lines																
C	A parallelogram with 4 equal sides																
D	A parallelogram with 4 right angles and 4 equal sides																
A	square																
B	rhombus ✓																
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D	Trapezoid																
Question14 circle the word that can name the shape  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>square</td> </tr> <tr> <td style="text-align: center;">B</td> <td>rhombus</td> </tr> <tr> <td style="text-align: center;">C</td> <td>Rectangle ✓</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Trapezoid</td> </tr> </table>	A	square	B	rhombus	C	Rectangle ✓	D	Trapezoid	Question14 circle the word that can name the shape  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td>square □</td> </tr> <tr> <td style="text-align: center;">B</td> <td>rhombus ◇</td> </tr> <tr> <td style="text-align: center;">C</td> <td>Rectangle □</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Trapezoid ✓</td> </tr> </table>	A	square □	B	rhombus ◇	C	Rectangle □	D	Trapezoid ✓
A	square																
B	rhombus																
C	Rectangle ✓																
D	Trapezoid																
A	square □																
B	rhombus ◇																
C	Rectangle □																
D	Trapezoid ✓																

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circle the word that can name the shape



- A square ✓
B rhombus
C Rectangle
D Trapezoid

Question14

Which statements are true about all squares? Choose **all** that apply.

- A All squares have 4 sides. ✓
B All squares have 2 pairs of parallel lines.
C All squares have 4 right angles ✓
D All squares have 4 equal sides. ✓

circle the word that can name the shape



- A square
B rhombus
C parallelogram ✓
D Trapezoid

Question14

Which statements are true about all rectangles? Choose **all** that apply.

- A All rectangles have 4 sides. ✓
B All rectangles have 2 pairs of parallel lines.
C All rectangles have 4 right angles ✓
D All rectangles have 4 equal sides.

15

Understand Line Symmetry

(1-4),9,10

251&252

Learn (1-4)

254&255

Question15

Circle the **symmetrical** figure.

- A مماثل
B يقسم الشكل
C لقسمين متساويين
D مماثل

Question15

Circle the symmetrical figure

- A ✓
B
C
D ...



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How many lines of symmetry are shown on equilateral triangle?

A	1			
B	2			
C	3			
D	4			

Question15

How many lines of symmetry are shown on rhombus?

A	1
B	2 ✓
C	3
D	4



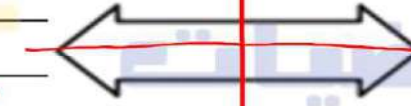
Question15

How many lines of symmetry are shown on rectangle?

A	1		
B	2 		
C	3		
D	4		

Question15

How many lines of symmetry are there?

A	1		
B	2 ✓		
C	3		
D	4		

How many lines of symmetry are there?

A	1	
B	2	
C	3	
D	4	

Question15

How many lines of symmetry are shown on a square?

A	1		
B	2		
C	3		
D	4		

Question15

How many lines of symmetry are there?

A	1	
B	2	
C	3	
D	4	

Question15

How many lines of symmetry are there?

A	4		
B	3		
C	2		
D	0		



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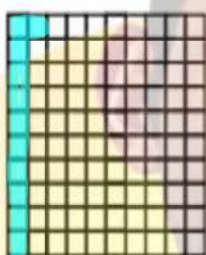
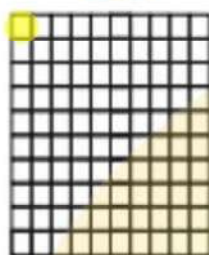
سلسلة الطارق في الرياضيات

How can you use the representations to compare the decimals?

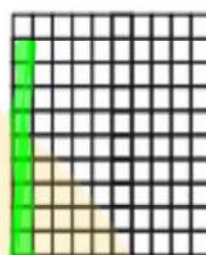
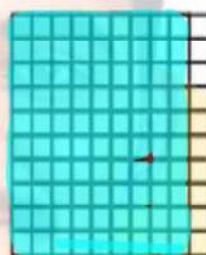
Complete with $>$, $<$, or $=$.

$>$ greater, $<$ less
 $=$ equal

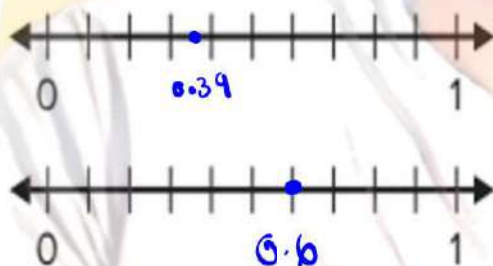
1. $0.01 < 0.11$



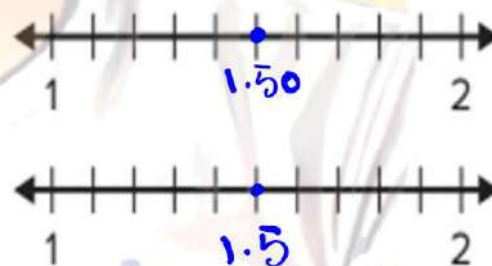
2. $0.90 > 0.09$



3. $0.39 < 0.60$



4. $1.50 = 1.50$



How can you express the decimals as fractions to compare?

Write the fractions, and complete with $>$, $<$, or $=$.

5. $0.62 > 0.26$



6. $0.57 < 0.70$



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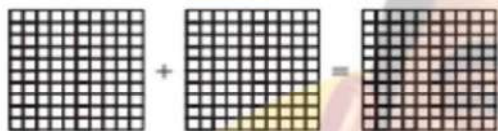
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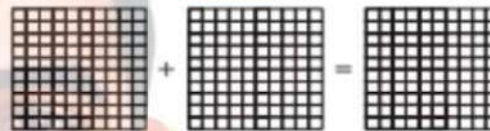
سلسلة الطارق في الرياضيات

How can you use the representation to find the sum?

$$1. \frac{20}{100} + \frac{11}{100} = \frac{31}{100}$$



$$2. \frac{42}{100} + \frac{10}{100} = \frac{52}{100}$$



What is the sum? Explain your work.

$$3. \frac{40}{100} + \frac{9}{100} = \frac{49}{100}$$

$$4. \frac{53}{100} + \frac{30}{100} = \frac{83}{100}$$

$$5. \frac{20}{100} + \frac{13}{100} = \frac{33}{100}$$

$$6. \frac{21}{100} + \frac{70}{100} = \frac{91}{100}$$

$$\frac{50}{100} + \frac{35}{100} = \frac{85}{100}$$

7. Keegan walks $\frac{5}{10}$ mile to meet his friend. Then Keegan and his friend walk $\frac{35}{100}$ mile to the park. How far did Keegan walk in all? (+)

8. Which addition problems have a sum of $\frac{62}{100}$? Choose all that apply.

A. $\frac{6}{10} + \frac{2}{100} = \frac{60}{100} + \frac{2}{100} = \frac{62}{100}$

B. $\frac{6}{100} + \frac{2}{10}$

C. $\frac{4}{10} + \frac{22}{100} = \frac{40}{100} + \frac{22}{100} = \frac{62}{100}$

D. $\frac{4}{10} + \frac{58}{100}$



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سلسلة الطارق في الرياضيات

Keira and her mother will build a fence for a rectangular vegetable garden.

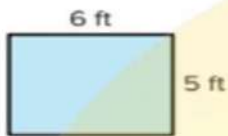
How many yards of fencing do they need?



$$P = 2(l + w) = 2(12 + 6) = 2(18) = 36 \text{ yd}$$

What is the missing value?

1.



$$P = \underline{22} \text{ ft}$$

$$\begin{aligned} 2(l + w) \\ 2(6 + 5) \\ 2(11) \end{aligned}$$

2.



$$P = \underline{42} \text{ yd}$$

$$\begin{aligned} 2(14 + 7) &= 2(21) = \\ 21 + 21 &= 42 \end{aligned}$$

3. $l = 10$ miles, $w = 4$ miles

$$P = 2 \times (10 + \underline{4})$$

$$P = \underline{28} \text{ miles}$$

$$\begin{array}{r} 14 \\ +14 \\ \hline 28 \end{array}$$

4. $l = 5$ km, $w = 2$ km

$$P = (2 \times 5) + (2 \times \underline{2})$$

$$P = \underline{14} \text{ km}$$

$$\begin{aligned} 10 + 4 \\ = 14 \end{aligned}$$

5. $l = 8$ m, $w = 5$ m

$$P = \underline{26} \text{ m}$$

$$\begin{aligned} 2(8 + 5) \\ 2(13) \\ 13 + 13 = 26 \end{aligned}$$

6. $l = 5$ units, $w = 5$ units

$$P = \underline{20} \text{ units}$$

$$\begin{aligned} 2(5 + 5) \\ 2(10) \\ 20 \end{aligned}$$

7.

 $l = 8$ inches

$$P = 24 \text{ inches}$$

$$w = \underline{3} \text{ inches}$$

$$\begin{aligned} w &= \frac{P}{l} \\ &= \frac{24}{8} \\ &= 3 \end{aligned}$$

8.

10 yd



$$P = 36 \text{ yd}$$

$$w = \underline{3.6} \text{ yd}$$

$$\begin{aligned} w &= \frac{P}{l} = \frac{36}{10} \\ &= 3.6 \end{aligned}$$

9. A rectangular playground has a length of 72 feet and a width of 36 feet. What is the perimeter?

$$P = 2(l + w) = 2(72 + 36) = 2(108) = 108 + 108 = 216$$



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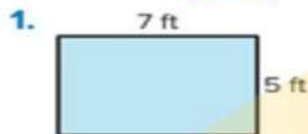
سلسلة الطارق في الرياضيات

10. A rectangular piece of paper has a length of 8 inches. Its perimeter is 32 inches. What is the width of the paper?

$$w = \frac{P}{l} = \frac{32}{8} \rightarrow w = 4$$

What is the area?

$$A = l \times w$$



$$A = 7 \times 5 = 35 \text{ square ft}$$



$$A = 15 \times 7 = 105 \text{ square yd}$$

3. $l = 12$ meters, $w = 6$ meters

$$A = 12 \times 6 = 72 \text{ square meters}$$

4. $l = 25$ km, $w = 4$ km

$$A = 4 \times 25 = 100 \text{ square km}$$

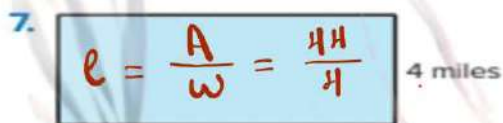
5. $l = 8$ cm, $w = 5$ cm

$$A = 5 \times 8 = 40 \text{ square cm}$$

6. $l = 22$ miles, $w = 5$ miles

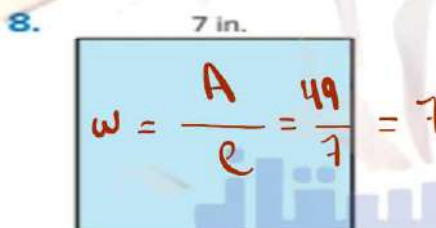
$$A = 5 \times 22 = 110 \text{ square miles}$$

What is the missing value?



$$A = 44 \text{ square miles}$$

$$l = 11 \text{ miles}$$



$$A = 49 \text{ square inches}$$

$$w = 7 \text{ inches}$$

Solve the problem.

9. A rectangular garden has a width of 9 feet and an area of 144 square feet. What is the length of the garden?

$$l = \frac{A}{w} = \frac{144}{9} = 16$$

10. A square piece of cardboard has a side length of 18 inches. What is the area of the piece of cardboard? Show your work.

$$A = l \times w \times 2 = 18 \times 18 = 324 \text{ in}^2$$



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سلسلة الطارق في الرياضيات

Kade measured the hand lengths of her class to the nearest eighth inch.

Length (in.)	$5\frac{6}{8}$	$5\frac{1}{8}$	$5\frac{2}{8}$	$5\frac{4}{8}$	5	$5\frac{5}{8}$	$5\frac{7}{8}$	$5\frac{3}{8}$	6
Count	3	1	2	5	0	2	1	0	1

How can Kade display the hand lengths in a line plot?



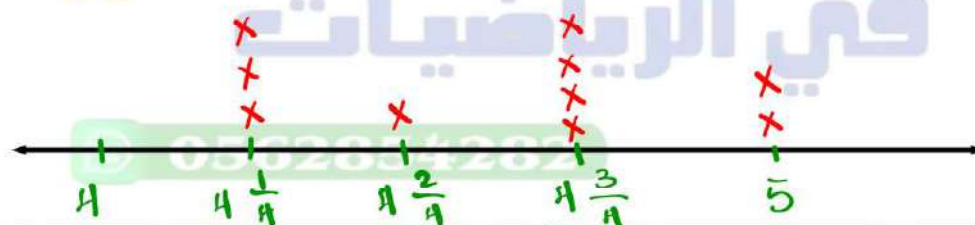
b) What is difference between the longest and shortest hand length?

$$6 - 5\frac{1}{8} = \cancel{5}\frac{8}{8} - \cancel{5}\frac{1}{8} = \frac{7}{8}$$

The table shows the lengths of a set of pencils.

How can you display the data in a line plot?

Length (in.)	$4\frac{3}{4}$	5	$4\frac{1}{4}$	$4\frac{2}{4}$
Count	4	2	3	1



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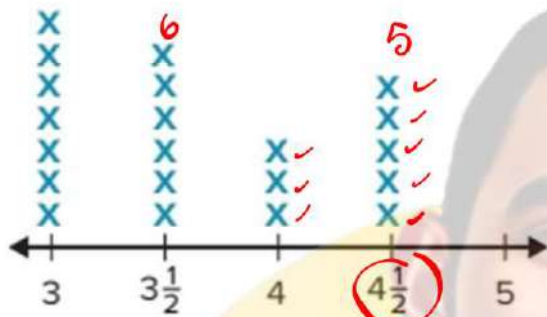
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سلسلة الطارق في الرياضيات

Use the line plot for exercises 1–4.



Mr. Cobey's Class
Long Jump Distances (ft)

1. What was the greatest distance jumped?

$4\frac{1}{2}$

2. How many students jumped 4 feet or greater?

8

3. How many students jumped $4\frac{1}{2}$ feet?

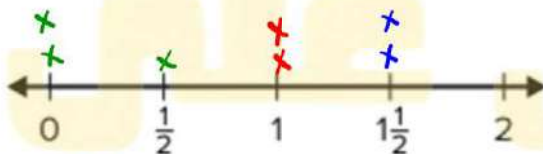
5

4. How many students jumped $3\frac{1}{2}$ feet?

6

Use the data for exercises 5 and 6.

5. The table shows the time Jackson spent practicing the saxophone each day. Display the data on a line plot.



6. How many hours did Jackson practice in all?

hours

$1\frac{1}{2} + 0 + \frac{1}{2} + 1 + 1 + 0 + 1\frac{1}{2} = 5\frac{1}{2}$ hours

Saxophone Practice (hours)	
Monday	$1\frac{1}{2}$ ✓
Tuesday	0 ✓
Wednesday	$\frac{1}{2}$
Thursday	1 ✓
Friday	1 ✓
Saturday	0 ✓
Sunday	$1\frac{1}{2}$ ✓



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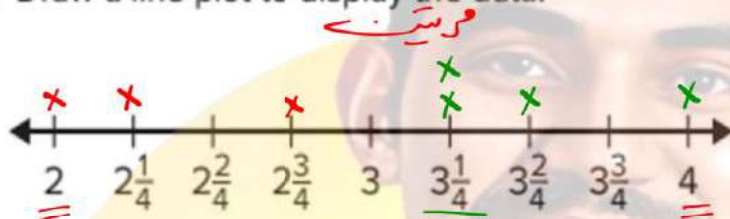


سلسلة الطارق في الرياضيات

The table shows the distances Kireka's family hiked each day during a family vacation. Use the data in the table for exercises 7–10.

Distance Hiked (miles)	
Monday	$3\frac{1}{4}$ ✓
Tuesday	2
Wednesday	$3\frac{2}{4}$ →
Thursday	$2\frac{1}{4}$ ✓
Friday	4
Saturday	$2\frac{3}{4}$ ✓
Sunday	$3\frac{1}{4}$ ✓

7. Draw a line plot to display the data.



8. Which distance was most frequently hiked?

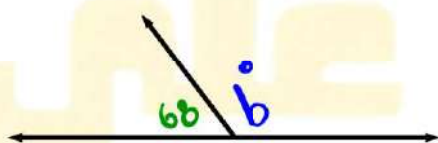
$3\frac{1}{4}$ miles

9. What is the difference between the longest and shortest distance Kireka's family hiked?

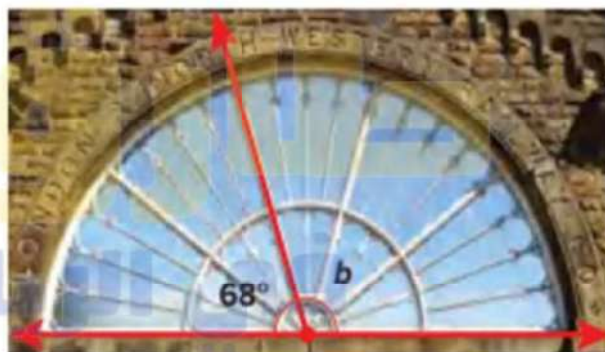
_____ miles

$$4 - 2 = 2$$

What is the measure of angle b ?



$$b = 180 - 68 = 112$$



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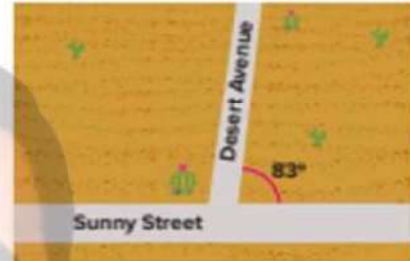
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سلسلة الطارق في الرياضيات

What is the measure of the other angle formed by the intersection of Sunny Street and Desert Avenue?

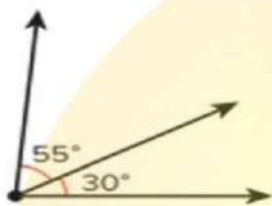


$$180 - 83 = 97$$

$$\begin{array}{r} 180 \\ - 83 \\ \hline 97 \end{array}$$

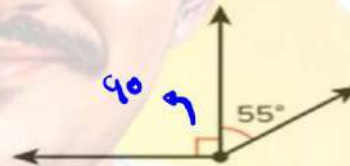
What is the combined angle measure? Show your work.

1.



$$55 + 30 = 85$$

2.



$$90 + 55 = 145$$

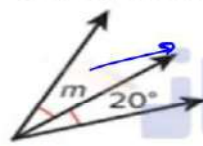
What is the unknown angle measure? Write an equation to show your work.

3. The sum of the angles is 155°.



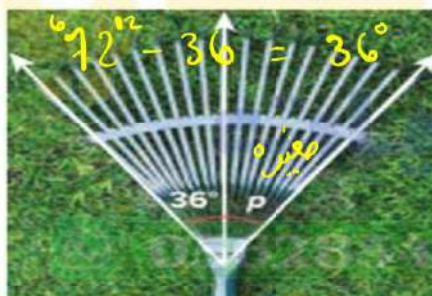
$$u = 155 - 25 = 130$$

4. The sum of the angles is 45°.



$$m = 45 - 20 = 25$$

5. The sum of the angles is 72°.



6. The sum of the angles is 180°.



$$m = 180 - 120 = 60$$



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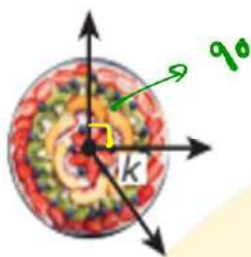
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7. The combined angle measure is 140° .



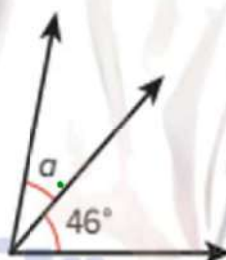
$$k = 140 - 90 = 50^\circ$$

8. The combined angle measure is 133° .



$$x = 133 - 47 = 86^\circ$$

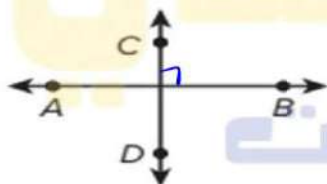
9. **STEM Connection** The drawing represents the turn made by one of Antonio's robots. The total turn measures 78° . What is the measure of angle a ?



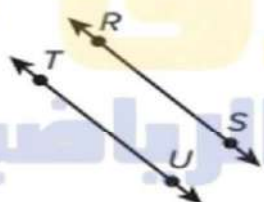
$$a = 78 - 46 = 32^\circ$$

How can you describe the pair of lines shown? Label the pair of lines as parallel, perpendicular, or neither.

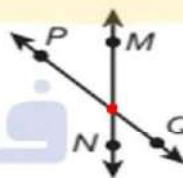
1.



2.



3.



Perpendicular

parallel

Neither



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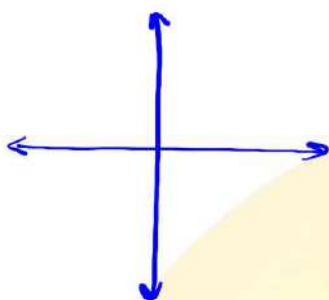
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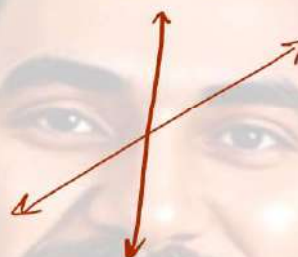
سلسلة الطارق في الرياضيات

Draw a pair of lines that match the description.

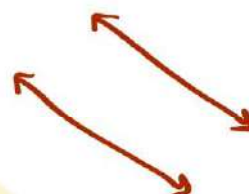
4. Perpendicular



5. Intersecting, but not perpendicular



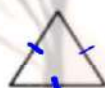
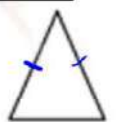
6. Parallel



You can classify triangles by their angles.

**Right triangles** have a right angle.**Acute triangles** have 3 acute angles.**Obtuse triangles** have an obtuse angle.

You can classify triangles by their side lengths.

***Equilateral triangles** have 3 equal side lengths.**Isosceles triangles** have at least 2 equal side lengths.**Scalene triangles** have no equal side lengths.

You can classify triangles both by angles and side lengths.

Acute isosceles



Acute scalene



Right isosceles



Right scalene



Obtuse isosceles



Obtuse scalene

**Math is... Explaining**

Why do you think that angles and side lengths are used to classify triangles?



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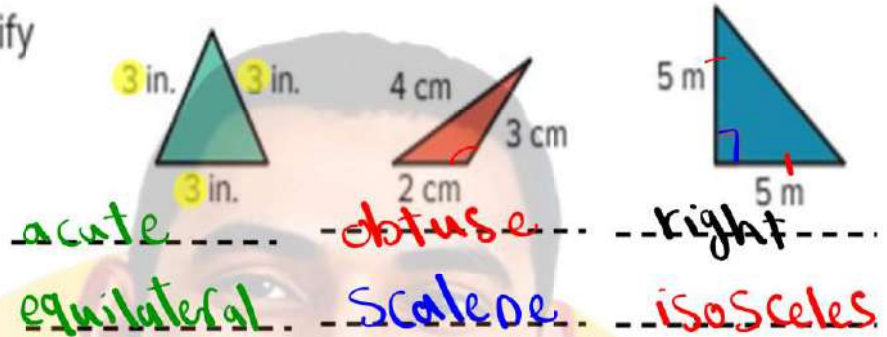
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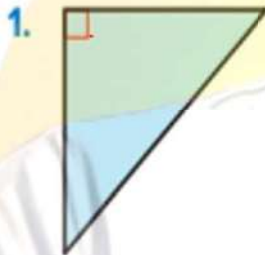


سلسلة الطارق في الرياضيات

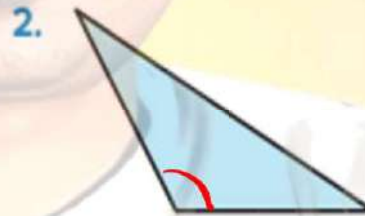
How can you classify the triangle?



How can you classify the triangle by its angles?



Right triangle



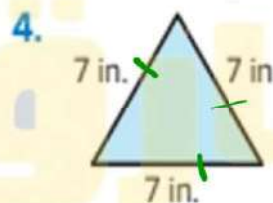
obtuse triangle

acute
obtuse
right

How can you classify the triangle by its sides?



Scalene triangle



Equilateral triangle

3 sides are =

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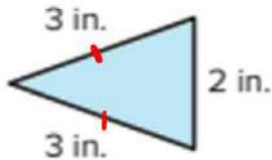
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سلسلة الطارق في الرياضيات

How can you classify the triangle by its angles and sides?

5.



acute triangle

isosceles

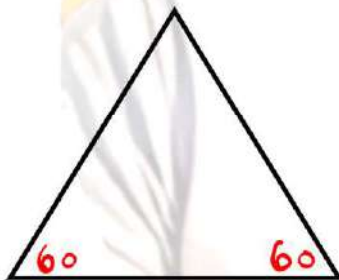
6.



obtuse triangle

Scalene

7. Two angles of a triangle are 60° . How can you classify this triangle by its angles? Explain.



Acute
equi angular

8. A triangle has two equal sides and an angle that is 90° . How can you classify the triangle by its angles and sides?

Right isosceles

9. A triangle has an angle equal to 140° . How can you classify this triangle? Why can you only classify it by its angle?

obtuse

ال obtuse ٩٥



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منصة طارق أكاديمي للرياضيات

Tarek Academy

IN

Math

MATH

خاص بالمنصة



خاص بجميع الجروبات و القنوات



استاذ / طارق علي

The background of the poster is a dark blue chalkboard filled with various mathematical concepts. It includes algebraic formulas like $[a+b]$, $\pi=3.14$, $A=\frac{ab+c}{d}$, $x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$, $a^2+b^2=c^2$, $c=\sqrt{a^2+b^2}$, $a^2=2a$, $f(a+b)=c$, $(x+y)^2-(x-y)^2$, and $+2c=1$. It also features geometric diagrams such as a coordinate plane with a curve, a cylinder, and a sine wave. Symbols like ψ and Me are also present.