

تجميعية أسئلة القسم الموضوعي وفق الهيكل الوزاري الجديد منهج ريفيل



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر العام ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

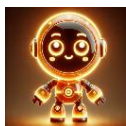
تاريخ إضافة الملف على موقع المناهج: 2025-10-24 14:55:52

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

المزيد من مادة
رياضيات:

إعداد: Albraiki Noha

التواصل الاجتماعي بحسب الصف الحادي عشر العام



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الحادي عشر العام والمادة رياضيات في الفصل الأول

تجميعية أسئلة وفق الهيكل الوزاري الجديد منهج ريفيل

1

تجميعية أسئلة القسم الكتابي وفق الهيكل الوزاري الجديد منهج ريفيل

2

تجميعية أسئلة شاملة وفق الهيكل الوزاري الجديد منهج ريفيل

3

ملزمة تجميعية أسئلة وفق الهيكل الوزاري منهج بريدج بدون الحل

4

نموذج إجابة تجميعية شاملة وفق كامل الهيكل الوزاري منهج بريدج

5



ALSHAWAMEKH SCHOOL - ABUDHABI
MATH DEPARTMENT

تربية
وتعليم

Grade 11 General

EoT1-MCQ Part

Number of MCQ عدد الأسئلة الموضوعية	20
Marks of MCQ درجة الأسئلة الموضوعية	3

Teacher: Noha Albraiki

REVEAL CURRICULUM
Term 1
2025-2026

Academic Year

عام الدراسي

2025/2026

Term

الفصل

1

Subject

المادة

Mathematics/Reveal
الرياضيات/إيرفيل

Grade

الصف

11

Stream

المسار

General
العام

Number of MCQ

عدد الأسئلة الموضوعية

20

Marks of MCQ

درجة الأسئلة الموضوعية

3

Number of FRQ

عدد الأسئلة المطالية

6

Marks per FRQ

الدرجات لكل أسئلة المطالية

(8-11)

Type of All Questions

نوع أسئلة الأسئلة

MCQ/ الأسئلة الموضوعية
FRQ/ الأسئلة المطالية

Maximum Overall Grade

الدرجة القصوى الإجمالي

100

Exam Duration

مدة الامتحان

150 minutes

Mode of Implementation

طريقة التطبيق

SwiftAssess & Paper-Based

Calculator

آلة الحاسبة

Allowed
مسموحة

Question*

السؤال*

Learning Outcome/Performance Criteria**

نتائج التعلم / معايير الأداء**

Reference(s) in the Student Book (English Version)

المراجع في كتاب الطالب (الإنجليزية (الإنجليزية)

Example/Exercise

أمثلة/تمرين

Page

الصفحة

1

Find the scale factor of a dilation

Exercises (10-18)

P120

2

Use proportions to identify similar polygons

Exercises (7-10)

P128

3

Solve problems using the properties of similar polygons

Exercises (11-14)

P128

4

Use similar triangles to solve problems

Exercises (9-12)

P134

5

Use proportional parts with parallel lines

Example 5

P144

6

Recognize and use proportional relationships of corresponding angle bisectors, altitudes, and medians of similar triangles

Exercises (8-9)

P153

7

Find the geometric mean between two numbers

Exercises (1-6)

P165

8

Solve problems involving relationships between parts of a right triangle and the altitude to its hypotenuse

Exercises (11-14)

P165

9

Use the Pythagorean Theorem

Exercises (1-12)

P171

10

Use the Converse of the Pythagorean Theorem

Exercises (20-22)

P172

11

Use the Converse of the Pythagorean Theorem

Exercises (20-22)

P172

12

Find the distance between two points on the coordinate plane

Exercises (13-18)

P177

13

Find values of trigonometric ratios

Exercises (19-21)

P192

14

Use the Law of Sines to solve triangles

Exercises (1-6)

P207

15

Use the Law of Cosines to solve triangles

Exercises (9-14)

P215

16

Use the Fundamental Counting Principle to count outcomes

Example 4

P368

17

Represent sample spaces

Example 1

P365

18

Find the intersection, union, and difference among sets

Example 1

P373

19

Find probabilities of dependent and independent events and solve related problems

Example 1

P398

20

Find the probability of mutually and non-mutually exclusive events and solve related problems

Example 2

P406

21

Visualize, describe, and solve problems using the perimeters of similar polygons.

Exercises (11-14)

P128

22

Solve problems and prove theorems by using triangle proportionality

Exercises (1-6)

P145

23

Use trigonometric ratios to find side lengths and angle measures of right triangles

Exercises (30-32)

P193

24

Use trigonometric ratios to find side lengths and angle measures of right triangles

Example 2

P196

25

Find the intersection, union, and difference among sets

Example 2+3

P374+375

26

Find probabilities of dependent and independent events and solve related problems

Example 3

P400

Number of FRQ

عدد الأسئلة المطالية

6

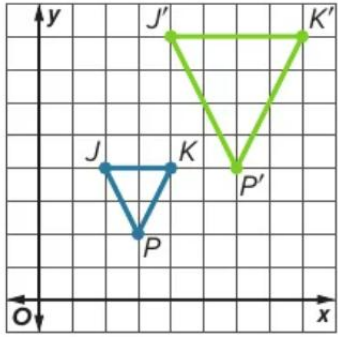
* Questions might appear in a different order in the actual exam

1. FIND THE SCALE FACTOR OF A DILATION

EXERCISES (10-18)

P120

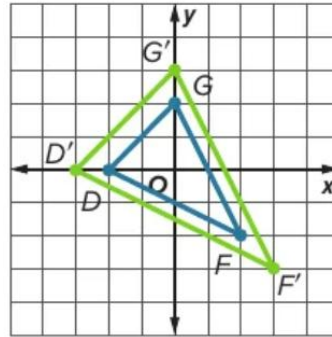
Find The Scale Factor of The Dilation.

10. $AJK'P'$ is the image of $AJKP$.

a) 1.5

b) 2

c) 2.5

d) $\frac{2}{3}$ 11. $AD'F'G'$ is the image of $ADFG$.

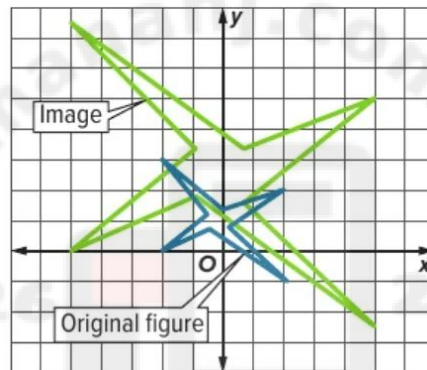
a) 1.5

b) 2

c) 2.5

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

12. Tyrone drew a logo and a dilation of the same logo on the coordinate plane. What is the scale factor of the dilation?



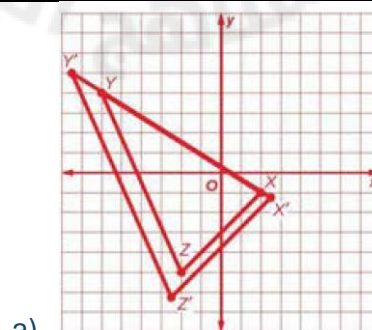
a) 1.5

b) 2

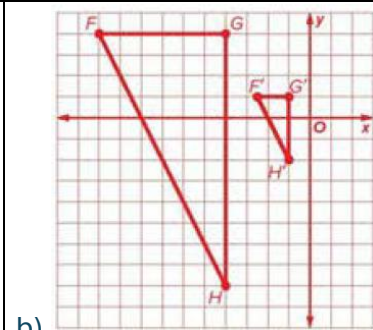
c) 2.5

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

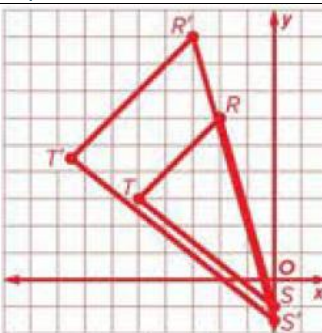
GRAPH THE IMAGE OF EACH POLYGON WITH THE GIVEN VERTICES AFTER A DILATION CENTERED AT THE ORIGIN WITH THE GIVEN SCALE FACTOR.

13. $F(-10, 4)$, $G(-4, 4)$, $H(-4, -8)$, $k = 0.25$ 

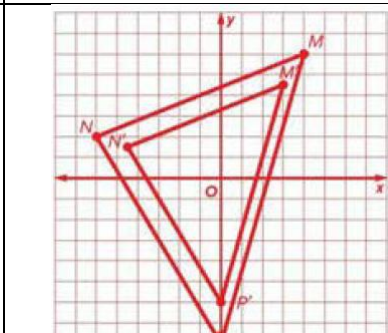
a)



b)



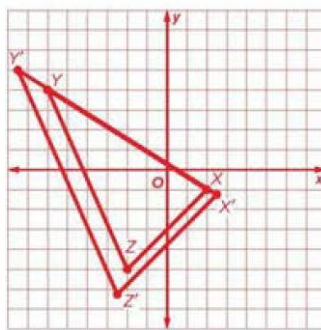
c)



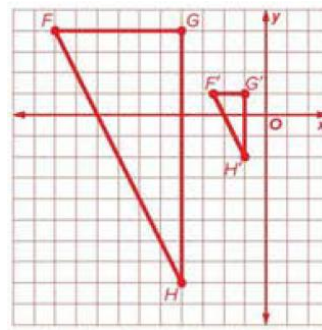
d)

14. $X(2, -1)$, $Y(-6, 4)$, $Z(-2, -5)$, $k = \frac{5}{4}$

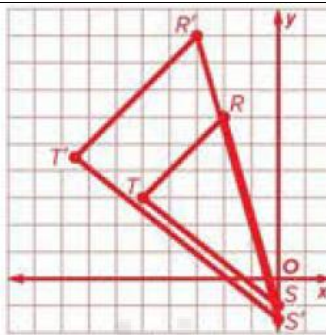
a)



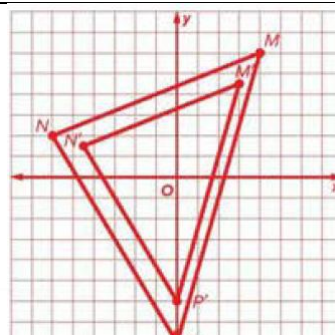
b)



c)

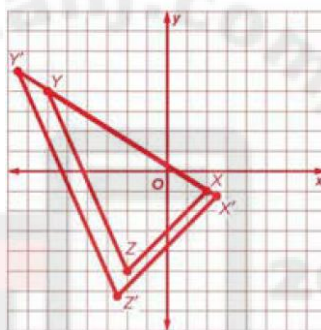


d)

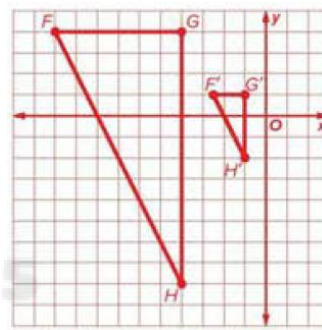


15. $M(4, 6)$, $N(-6, 2)$, $P(0, -8)$, $k = \frac{3}{4}$

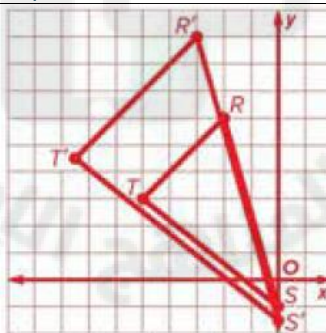
a)



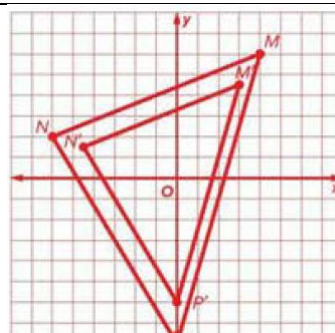
b)



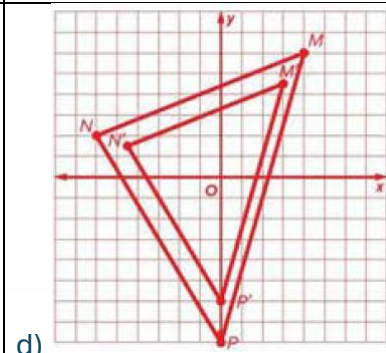
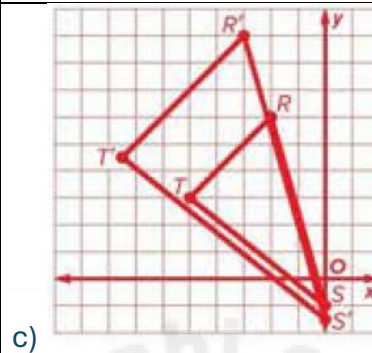
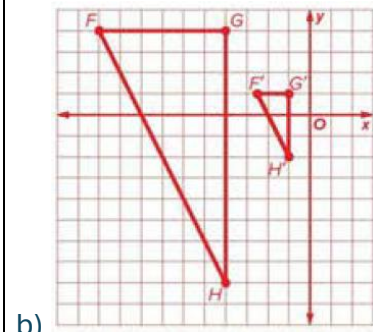
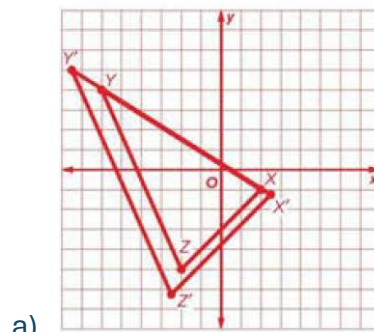
c)



d)

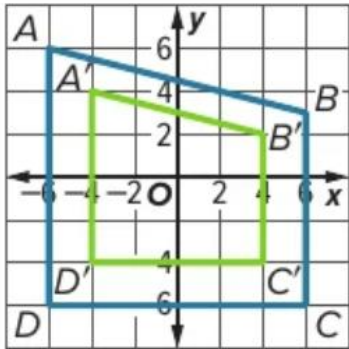


16. $R(-2, 6)$, $S(0, -1)$, $T(-5, 3)$, $k = 1.5$



Find The Scale Factor of The Dilation.

17. $A'B'C'D'$ is the image of $ABCD$.



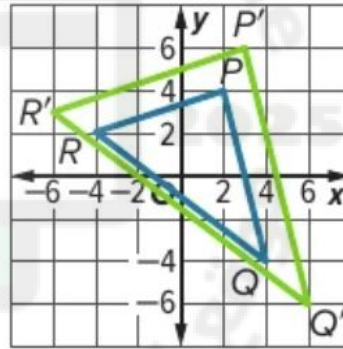
a) 1.5

b) 2

c) 2.5

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

18. $AP'Q'R'$ is the image of $APQR$.



a) 1.5

b) 2

c) 2.5

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

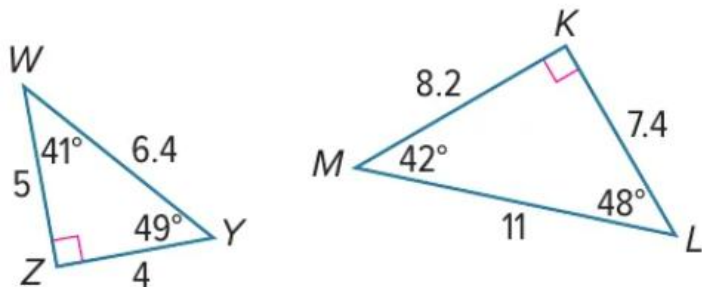
2. USE PROPORTIONS TO IDENTIFY SIMILAR POLYGONS

EXERCISES (7-10)

P128

DETERMINE WHETHER EACH PAIR OF FIGURES IS SIMILAR. IF SO, FIND THE SCALE FACTOR. EXPLAIN YOUR REASONING.

7.



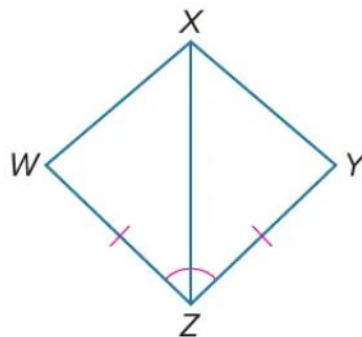
a) $\frac{1}{4}$

b) 1

c) $\frac{3}{5}$

d) NOT SIMILAR

8.



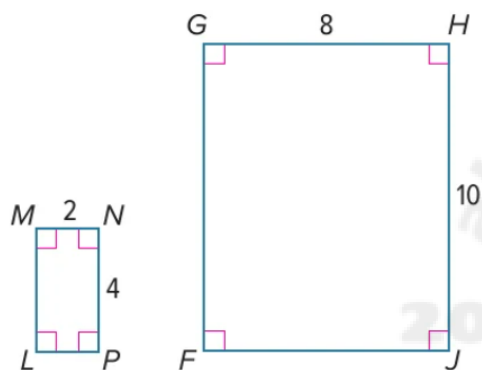
a) $\frac{1}{4}$

b) 1

c) $\frac{3}{5}$

d) NOT SIMILAR

9.



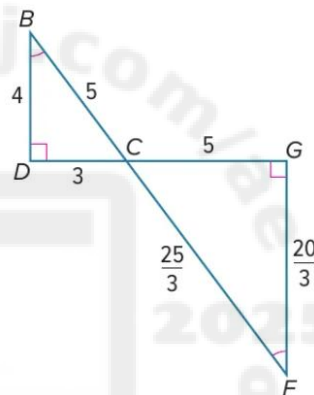
a) $\frac{1}{4}$

b) 1

c) $\frac{3}{5}$

d) NOT SIMILAR

10.



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

b) 1

e) $\frac{3}{5}$

f) NOT SIMILAR

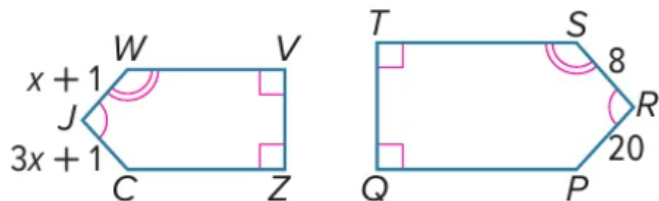
3. SOLVE PROBLEMS USING THE PROPERTIES OF SIMILAR POLYGONS

EXERCISES (11-14)

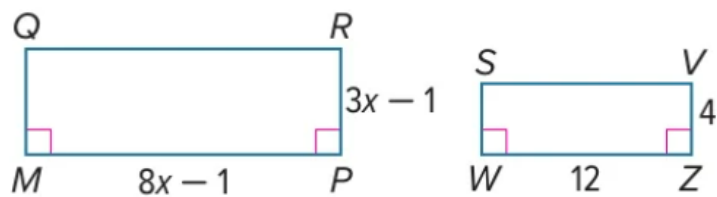
P128

Each Pair of Polygons is Similar. Find the value of x

11.



12.



a) 2

b) 5

a) 2

b) 5

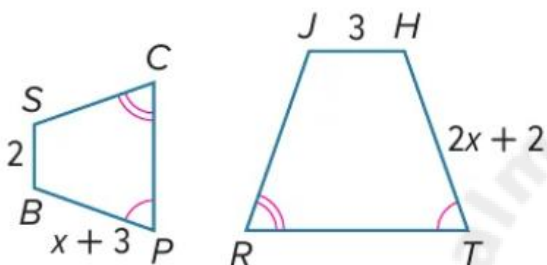
c) 7

d) 3

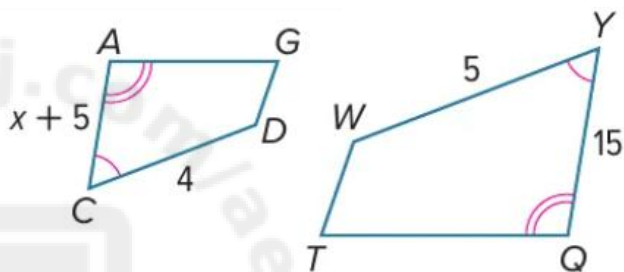
c) 7

d) 3

13.



14.



a) 2

b) 5

a) 2

b) 5

c) 7

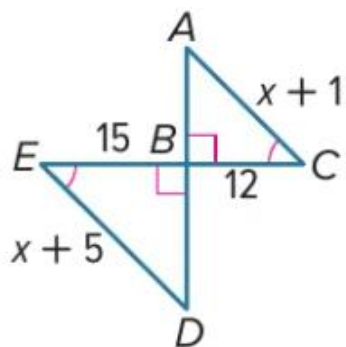
d) 3

e) 7

f) 3

Identify similar triangles, then find each measure.

9. AC



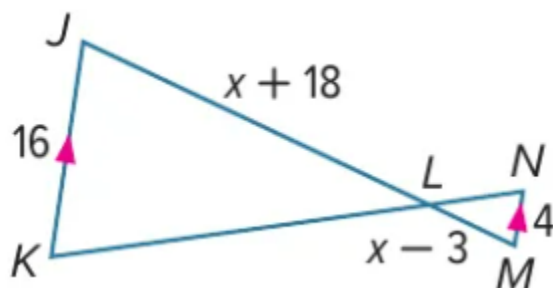
a) 9

b) 28

c) 16

d) 5.4

10. JL



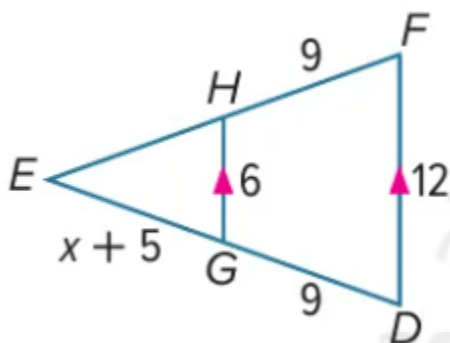
a) 9

b) 28

c) 16

d) 5.4

11. EH



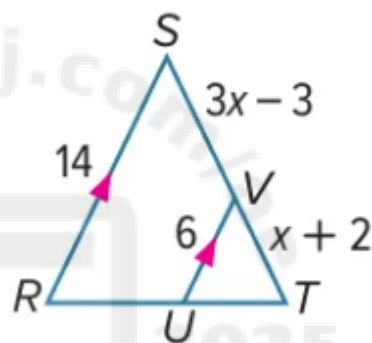
a) 9

b) 28

c) 16

d) 5.4

12. VT



a) 9

b) 28

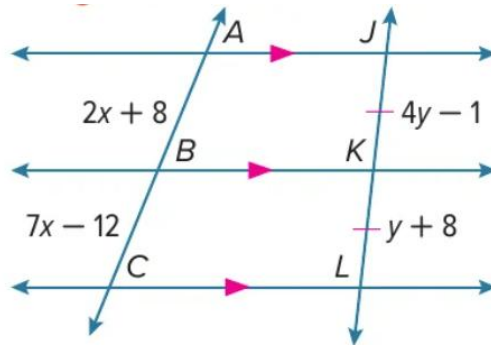
c) 16

d) 5.4

5. USE PROPORTIONAL PARTS WITH PARALLEL LINES

EXAMPLE 5

P144

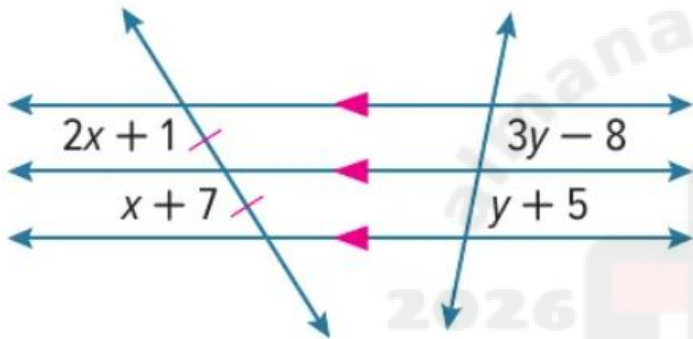
Example 5: Use Congruent Segment of Transversals**Find the values of x and y** **EXAMPLE 5**

a) $x=3, y=6$

b) $x=6, y=6.5$

c) $x=2, y=4$

d) $x=4, y=3$

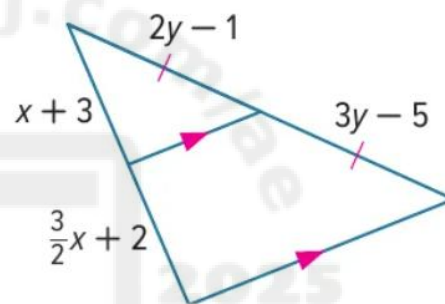
11.

a) $x=3, y=6$

b) $x=6, y=6.5$

c) $x=2, y=4$

d) $x=4, y=3$

12.

a) $x=3, y=6$

b) $x=6, y=6.5$

c) $x=2, y=4$

d) $x=4, y=3$

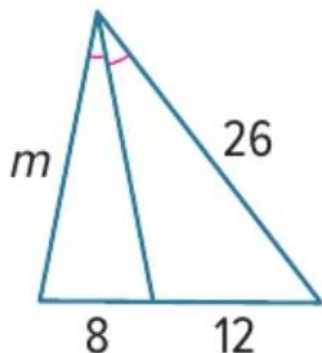
6. RECOGNIZE AND USE PROPORTIONAL RELATIONSHIPS OF CORRESPONDING ANGLE BISECTORS, ALTITUDES, AND MEDIANS OF SIMILAR TRIANGLES

EXERCISES (8-9)

P153

Find the value of each variable to the nearest tenth

8.



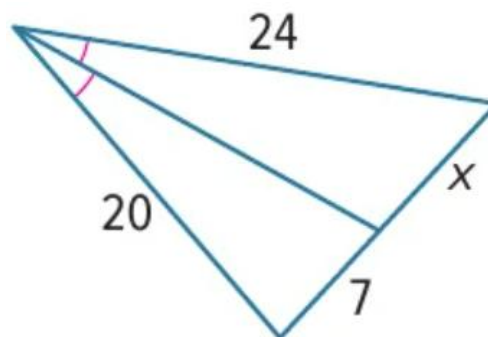
a) 20.7

b) 8.4

c) 17.3

d) 2.1

9.



a) 20.7

b) 8.4

c) 17.3

d) 2.1

7. FIND THE GEOMETRIC MEAN BETWEEN TWO NUMBERS

EXERCISES (1-6)

P165

FIND THE GEOMETRIC MEAN BETWEEN EACH PAIR OF NUMBERS.

1. 4 and 6

a) 10

b) 15.5

c) 4.9

d) 1

2. $\frac{1}{2}$ and 2

a) 10

b) 15.5

c) 4.9

d) 1

3. 4 and 25

a) 10

b) 15.5

c) 4.9

d) 1

4. 12 and 20

a) 10

b) 15.5

c) 4.9

d) 1

5. 17 and 3

a) 10

b) 1.5

c) 8.5

d) 7.1

6. 3 and 24

a) 8.5

b) 15.5

c) 4.9

d) 1.6

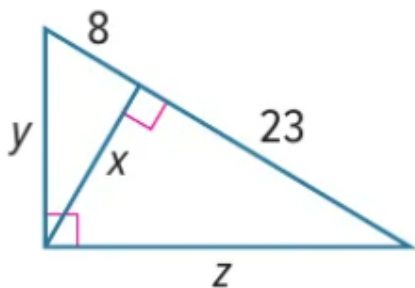
8. SOLVE PROBLEMS INVOLVING RELATIONSHIPS BETWEEN PARTS OF A RIGHT TRIANGLE AND THE ALTITUDE TO ITS HYPOTENUSE

EXERCISES (11-14)

P165

Find the values of x , y and z .

11.



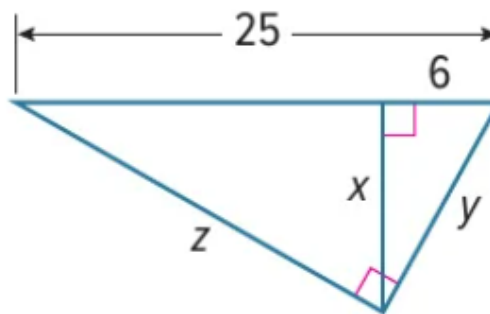
a) $x=4.5$, $y=3.6$, $z=6.5$

b) $x=13.6$, $y=15.7$, $z=26.7$

c) $x=15$, $y=5$, $z=17.3$

d) $x=10.7$, $y=12.2$, $z=21.8$

12.



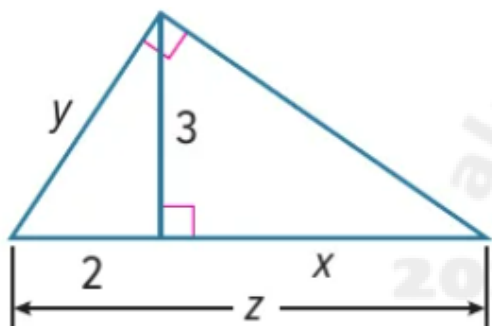
a) $x=4.5$, $y=3.6$, $z=6.5$

b) $x=13.6$, $y=15.7$, $z=26.7$

c) $x=15$, $y=5$, $z=17.3$

d) $x=10.7$, $y=12.2$, $z=21.8$

13.



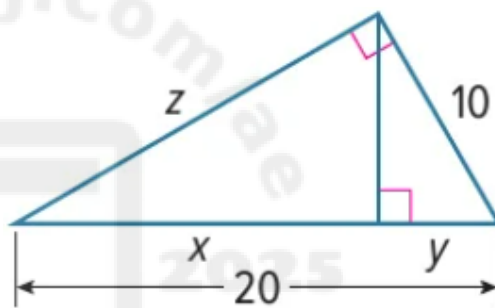
a) $x=4.5$, $y=3.6$, $z=6.5$

b) $x=13.6$, $y=15.7$, $z=26.7$

c) $x=15$, $y=5$, $z=17.3$

d) $x=10.7$, $y=12.2$, $z=21.8$

14.



a) $x=4.5$, $y=3.6$, $z=6.5$

b) $x=13.6$, $y=15.7$, $z=26.7$

c) $x=15$, $y=5$, $z=17.3$

d) $x=10.7$, $y=12.2$, $z=21.8$

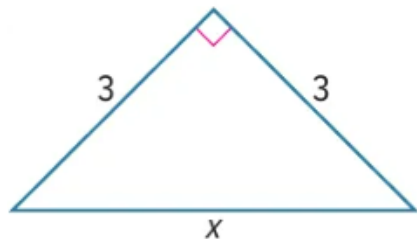
9. USE THE PYTHAGOREAN THEOREM

EXERCISES (1-12)

P171

Find the values of x .

1.



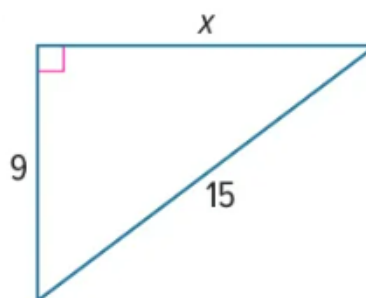
a) 60

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

c) 4.2

d) 12

2.



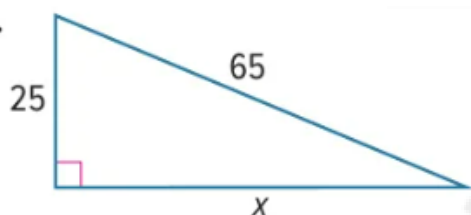
a) 60

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

c) 4.2

d) 12

3.



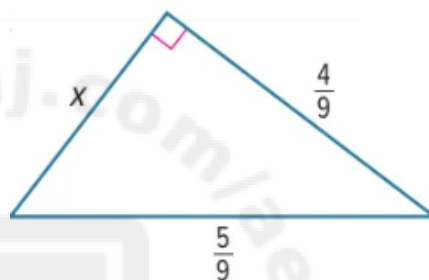
a) 60

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

c) 4.2

d) 12

4.



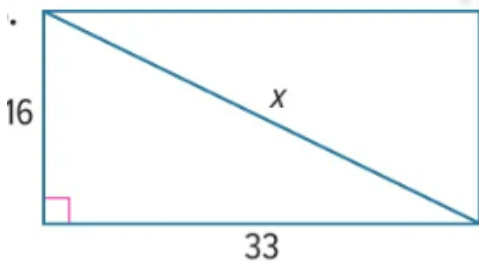
a) 60

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

c) 4.2

d) 12

5.



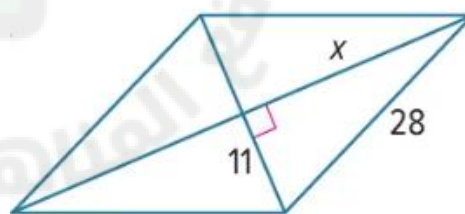
a) 15

b) 36.7

c) 51

d) 25.7

6.



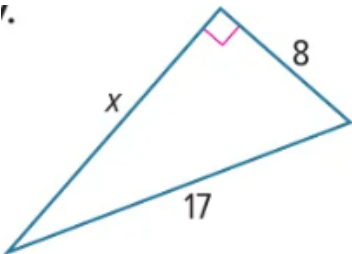
a) 15

b) 36.7

c) 51

d) 25.7

7.



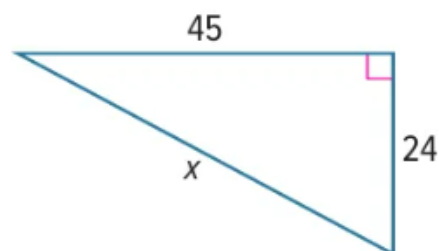
a) 15

b) 36.7

c) 51

d) 25.7

8.



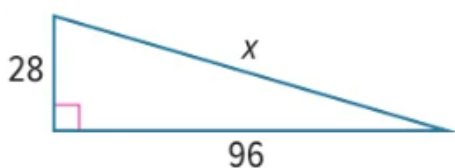
a) 15

b) 36.7

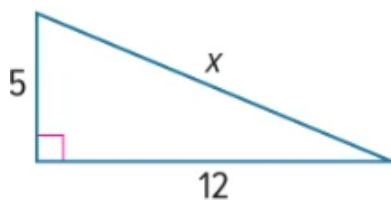
c) 51

d) 25.7

9.



10.



a) 100

b) 13

c) 16

d) 6

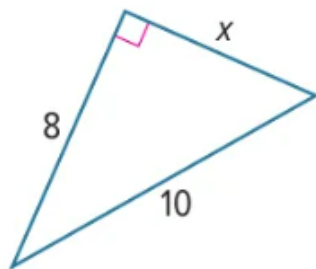
a) 100

b) 13

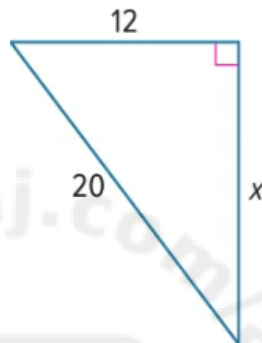
c) 16

d) 6

11.



12.



a) 100

b) 13

c) 16

d) 6

a) 100

b) 13

c) 16

d) 6

10/11. USE THE CONVERSE OF THE PYTHAGOREAN THEOREM

EXERCISES (20-22)

P172

DETERMINE WHETHER EACH SET OF MEASURES CAN BE THE MEASURES OF THE SIDES OF A TRIANGLE. IF SO, CLASSIFY THE TRIANGLE AS ACUTE, OBTUSE, OR RIGHT. JUSTIFY YOUR ANSWER.

20. $\sqrt{5}, \sqrt{12}, \sqrt{13}$

a) Acute

b) Right

c) Obtuse

d) Not Form a triangle

21. $2, \sqrt{8}, \sqrt{12}$

a) Acute

b) Right

c) Obtuse

d) Not Form a triangle

22. $9, 40, 41$

a) Acute

b) Right

c) Obtuse

d) Not Form a triangle

12. FIND THE DISTANCE BETWEEN TWO POINTS ON THE COORDINATE PLANE.		EXERCISES (13-18)	P177
DETERMINE THE COORDINATES OF THE MIDPOINT M OF THE SEGMENT JOINING EACH PAIR OF POINTS.			
13. K(-2,-4,-4) and L(4, 2, 0)	a) (2,3,-4)	b) (-1,1,2)	
	c) $(4, \frac{7}{2}, \frac{17}{2})$	d) (1,-1,-2)	
14. W(-1, -3, -6) and Z(-1, 5, 10)	a) (2,3,-4)	b) (-1,1,2)	
	c) $(4, \frac{7}{2}, \frac{17}{2})$	d) (1,-1,-2)	
15. R(3, 3, 4) and V(5, 4, 13)	a) (2,3,-4)	b) (-1,1,2)	
	c) $(4, \frac{7}{2}, \frac{17}{2})$	d) (1,-1,-2)	
16. A(4, 6, -8) and B(0, 0, 0)	a) (2,3,-4)	b) (-1,1,2)	
	c) $(4, \frac{7}{2}, \frac{17}{2})$	d) (1,-1,-2)	
17. C(8, 7, 11) and D(2, 1, 8)	a) (3,-4,5)	b) $(2, -4, \frac{3}{2})$	
	c) $(5, 4, \frac{19}{2})$	d) (1,-1,3)	
18. T(-1, -7, 9) and U(5, -1, -6)	a) (3,-4,5)	b) $(2, -4, \frac{3}{2})$	
	c) $(5, 4, \frac{19}{2})$	d) (1,-1,3)	

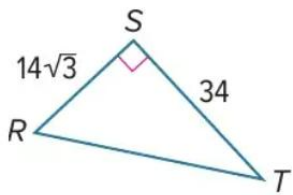
13. FIND VALUES OF TRIGONOMETRIC RATIOS.

EXERCISES (19-21)

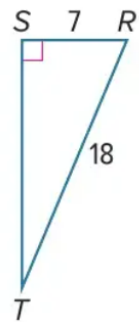
P192

USE A CALCULATOR TO FIND $m\angle T$ TO THE NEAREST TENTH.

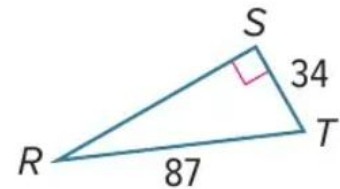
19.

a) 22.9° b) 35.5° c) 67° d) 30.4°

20.

a) 22.9° b) 35.5° c) 67° d) 30.4°

21.

a) 22.9° b) 35.5° c) 67° d) 30.4°

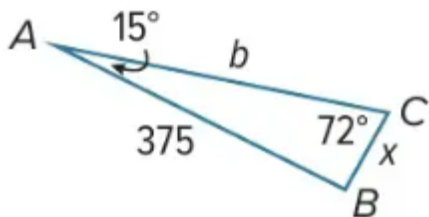
14. USE THE LAW OF SINES TO SOLVE TRIANGLES

EXERCISES (1-6)

P207

Find the values of x .

1.



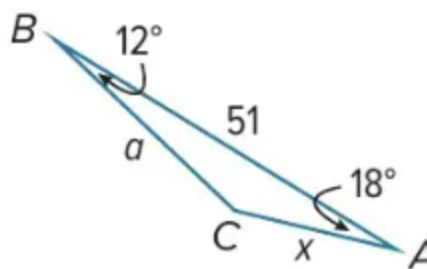
a) 22.9

b) 102.1

c) 21.2

d) 35.1

2.



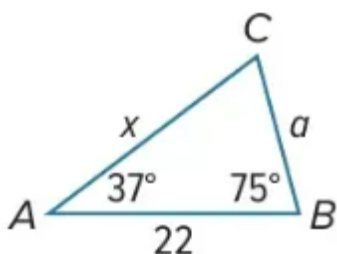
a) 22.9

b) 102.1

c) 21.2

d) 35.1

3.



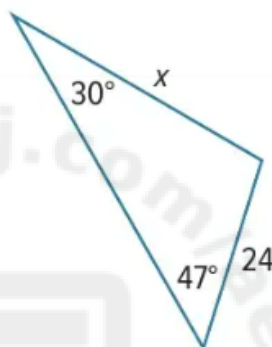
a) 22.9

b) 102.1

c) 21.2

d) 35.1

4.



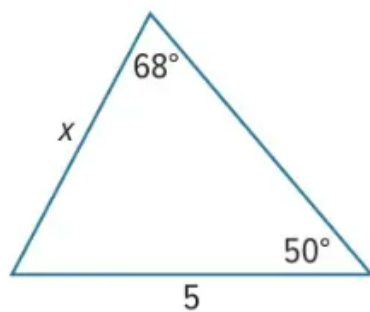
a) 22.9

b) 102.1

c) 21.2

d) 35.1

5.



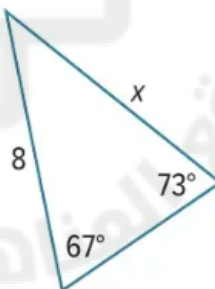
a) 4.1

b) 22.8

c) 15.1

d) 7.7

6.



a) 4.1

b) 22.8

c) 15.1

d) 7.7

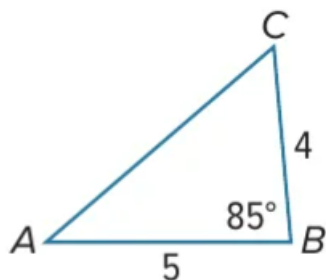
15. USE THE LAW OF COSINES TO SOLVE TRIANGLES

EXERCISES (9-14)

P215

REASONING. Solve each triangle. Round side lengths to the nearest tenth and angle measures to the nearest degree.

9.



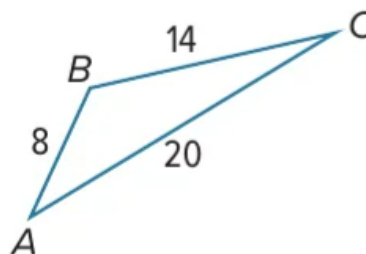
a) $m\angle A = 33$
 $m\angle C = 18$
 $b = 129$

b) $m\angle A = 41$
 $m\angle C = 54$
 $b = 6.1$

c) $m\angle A = 67$
 $m\angle C = 33$
 $b = 12.8$

d) $m\angle A = 30$
 $m\angle C = 42$
 $b = 108$

10.



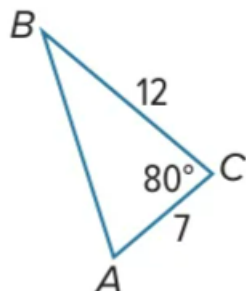
a) $m\angle A = 33$
 $m\angle C = 18$
 $m\angle B = 129$

b) $m\angle A = 41$
 $m\angle C = 54$
 $m\angle B = 6.1$

c) $m\angle A = 67$
 $m\angle C = 33$
 $m\angle B = 12.8$

d) $m\angle A = 30$
 $m\angle C = 42$
 $m\angle B = 108$

11.



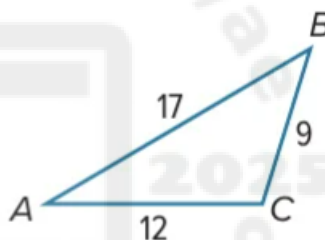
a) $m\angle A = 33$
 $m\angle B = 18$
 $c = 129$

b) $m\angle A = 41$
 $m\angle B = 54$
 $c = 6.1$

c) $m\angle A = 67$
 $m\angle B = 33$
 $c = 12.8$

d) $m\angle A = 30$
 $m\angle B = 42$
 $c = 108$

12.



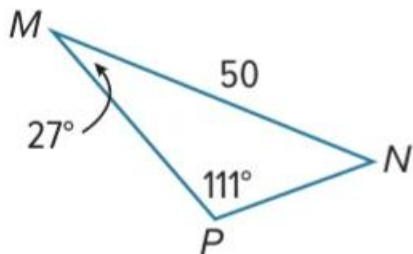
a) $m\angle A = 33$
 $m\angle B = 18$
 $m\angle C = 129$

b) $m\angle A = 41$
 $m\angle B = 54$
 $m\angle C = 6.1$

c) $m\angle A = 67$
 $m\angle C = 33$
 $m\angle B = 12.8$

d) $m\angle A = 30$
 $m\angle B = 42$
 $m\angle C = 108$

13.



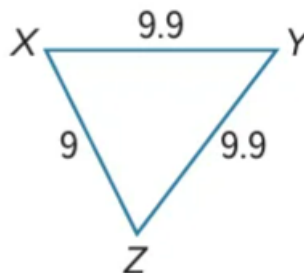
a) $m\angle N = 33$
 $m = 18$
 $n = 129$

b) $m\angle N = 42$
 $m = 35.8$
 $n = 24.3$

c) $m\angle N = 33$
 $m = 63$
 $n = 54$

d) $m\angle N = 42$
 $m = 76$
 $n = 2.3$

14.



a) $m\angle X = 54$
 $m\angle Y = 18$
 $m\angle Z = 63$

b) $m\angle X = 41$
 $m\angle Y = 54$
 $m\angle Z = 54$

c) $m\angle X = 63$
 $m\angle Y = 63$
 $m\angle Z = 54$

d) $m\angle X = 30$
 $m\angle Y = 42$
 $m\angle Z = 108$

16. USE THE FUNDAMENTAL COUNTING PRINCIPLE TO COUNT OUTCOMES

EXAMPLE 4

P368

Santiago lists the number of sections available for the courses he will take in his first semester at college. How many different schedules could Santiago create for this semester?

Course	Sections Offered
Art History	6
French	5
Mathematics	9
Art	4
English	6

a) 6982

b) 7369

c) 6489

d) 7392

A sneaker company lets you customize your own sneaker on their Web site. Using their most popular sneaker as the base, you have the option to customize the color of each part of the sneaker.

• Customize Your Shoes

Main Color ▼ 20

Maroon	Peach	Lt Blue	Lt Green	Gold
Red	Lt Orange	Blue	Green	Yellow
Pink	Orange	Dk Blue	Dk Green	Black
Magenta	Dk Orange	Midnight	Gray	White

Base ▶ 12
Side ▶ 29
Toe Cap ▶ 12
Sole ▶ 2
Laces ▶ 29



Part A Which is the best estimate for the number of possible customizations?

a) 100

b) 3,600,000

c) 5,062,500

d) 36,000,000

Part B How many different customizations can be created?

a) 4,844,160

b) 3,605,700

c) 450,900

d) 50,000

17. REPRESENT SAMPLE SPACES

EXAMPLE 1

P365

A fair die is tossed once.

A. WHAT IS THE SAMPLE SPACE OF THE EXPERIMENT?

B. WHAT IS THE SAMPLE SPACE FOR THE EVENT OF ROLLING A PRIME NUMBER? WRITE THE OUTCOMES TO COMPLETE THE SAMPLE SPACE.

a) $S=\{1,2,3\}$ b) $S=\{2,3,5\}$ a) $S=\{1,2,3\}$ b) $S=\{2,3,5\}$ c) $S=\{6\}$ d) $S=\{1,2,3,4,5,6\}$ c) $S=\{6\}$ d) $S=\{1,2,3,4,5,6\}$

18. FIND THE INTERSECTION, UNION, AND DIFFERENCE AMONG SETS

EXAMPLE 1

P373

A fair die is rolled once. Let A be the event of rolling an odd number, and let B be the event of rolling a number greater than 3. Find $A \cap B$.

a) 3

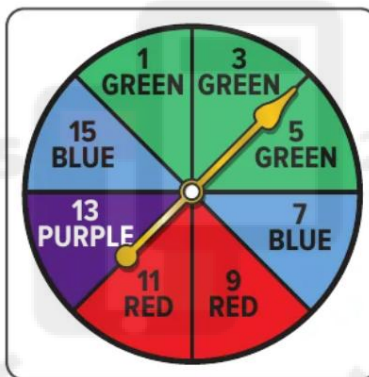
b) 4

c) 6

d) 5

CHECK

Let A be the event of the spinner landing on a blue section, and let B be the event of the spinner landing on a section with a number divisible by 3. What are the possible outcomes of each event?

 $A = \{7, ?\}$ $B = \{3, _, 15\}$ $A \cap B = \{?\}$

19. FIND PROBABILITIES OF DEPENDENT AND INDEPENDENT EVENTS AND SOLVE RELATED PROBLEMS

EXAMPLE 1

P398

Ana is a member of a gaming Web site that randomly pairs users together to solve puzzles. Of the 50 other players currently online, Ana is friends with 10 of them. Suppose Ana is paired with a player for a game. Not liking the outcome, she disconnects and is paired with another player.

A. WHAT IS THE PROBABILITY THAT NEITHER PLAYER THAT ANA IS PAIRED WITH IS A FRIEND OF HERS?

B. WHAT ASSUMPTION DO YOU HAVE TO MAKE IN ORDER TO SOLVE THIS PROBLEM?

a) 10%

b) 22%

c) 43%

d) 64%

CHECK

WEATHER Paola's weather app tells her that there is a 20% chance of rain on Tuesday and a 50% chance of rain on Wednesday. What is the probability that it will rain on both Tuesday and Wednesday?

a) 10%

b) 22%

c) 43%

d) 64%

20. FIND THE PROBABILITY OF MUTUALLY AND NON-MUTUALLY EXCLUSIVE EVENTS AND SOLVE RELATED PROBLEMS

EXAMPLE 2

P406

A card is drawn from a standard deck of 52 cards. Determine whether the events are mutually exclusive or not mutually exclusive. Explain your reasoning.

a. drawing a 3 or a 2

a) MUTUALLY

b) NOT MUTUALLY

b. drawing a 7 or a red card

a) MUTUALLY

b) NOT MUTUALLY

c. drawing a queen or a spade

a) MUTUALLY

b) NOT MUTUALLY



ALSHAWAMEKH SCHOOL - ABUDHABI
MATH DEPARTMENT

تربية
وتعليم

Grade 11 General

EoT1-FRQ Part

Number of FRQ عدد الأسئلة المقالية	21	M3L2	Visualize, describe, and solve problems using the perimeters of similar polygons.	Exercises (11-14)	P128
	22	M3L5	Solve problems and prove theorems by using triangle proportionality	Exercises (1-6)	P145
	23	M4L5	Use trigonometric ratios to find side lengths and angle measures of right triangles	Exercises (30-32)	P193
	24	M4L6	Use trigonometric ratios to find side lengths and angle measures of right triangles	Example 2	P196
	25	M7L2	Find the intersection, union, and difference among sets	Example 2+3	P374+375
	26	M7L5	Find probabilities of dependent and independent events and solve related problems	Example 3	P400

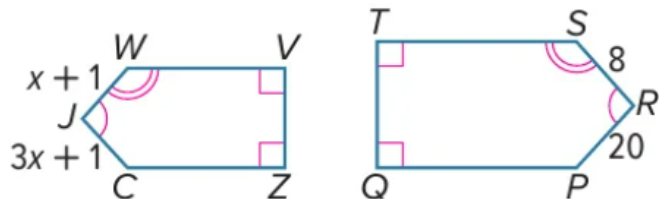
Number of FRQ عدد الأسئلة المقالية	6
Marks per FRQ الدرجات للأسئلة المقالية	(6-11)

Teacher: Noha Albraiki

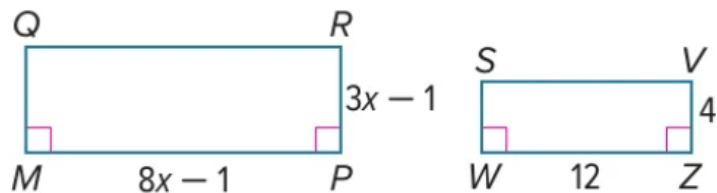
REVEAL CURRICULUM
Term 1
2025-2026

Each Pair of Polygons is Similar. Find the value of x

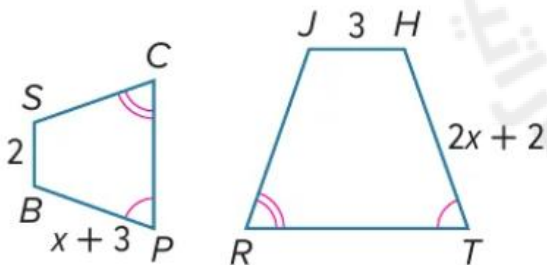
11.



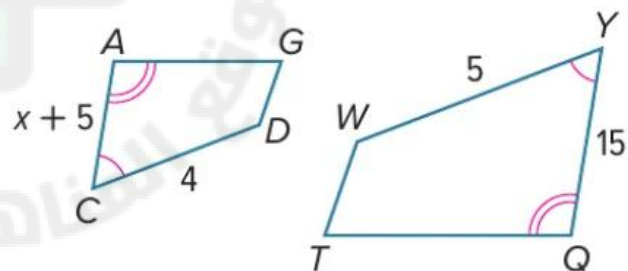
12.



13.

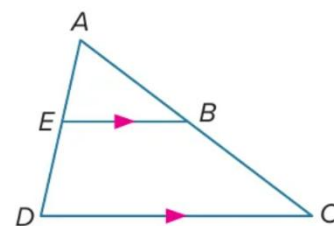
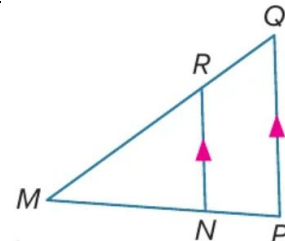


14.



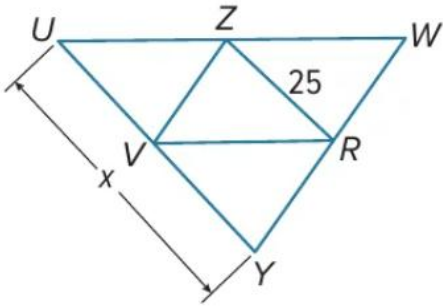
Example 1

Use the figure at the right.

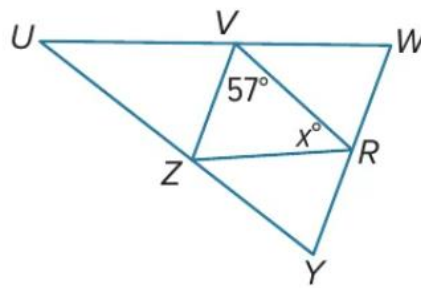
1. If $AB = 6$, $BC = 4$, and $AE = 9$, find ED .2. If $AB = 12$, $AC = 16$, and $ED = 5$, find AE .**Example 2**Determine whether $\overline{NR} \parallel \overline{PQ}$. Justify your answer.3. $PM = 18$, $PN = 6$, $QM = 24$, and $RM = 16$ 4. $QM = 31$, $RM = 21$, and $PM = 4PN$

VR, VZ, and ZR are midsegments of AUWY. Find the value of x .

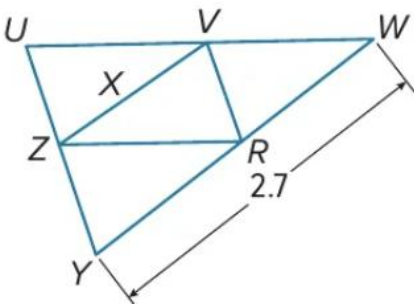
5.



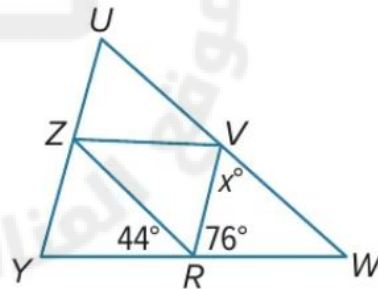
6.



7.

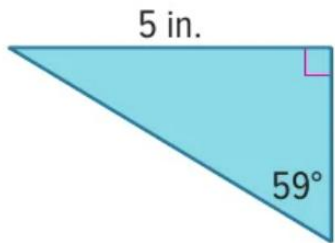


8.

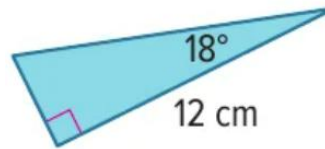


Find the Perimeter and Area of Each Triangle. Round to the nearest hundredth

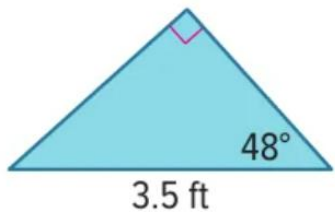
30.



31.

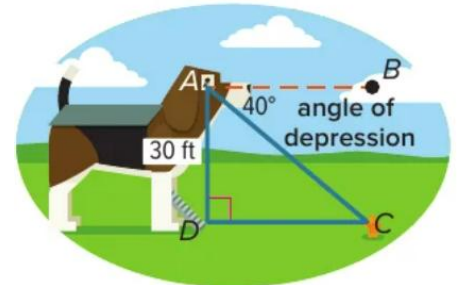


32.



Example 2: Angle of Depression

SIGHTSEEING Cottonwood, Idaho's Dog Bark Park Inn is a popular tourist attraction featuring a hotel in the shape of a 30-foot wood-carved beagle. Pedro looks out the window 30 feet from the ground and spots a fire hydrant on the ground at an estimated angle of depression of 40° . What is the horizontal distance from Pedro to the hydrant to the nearest foot?

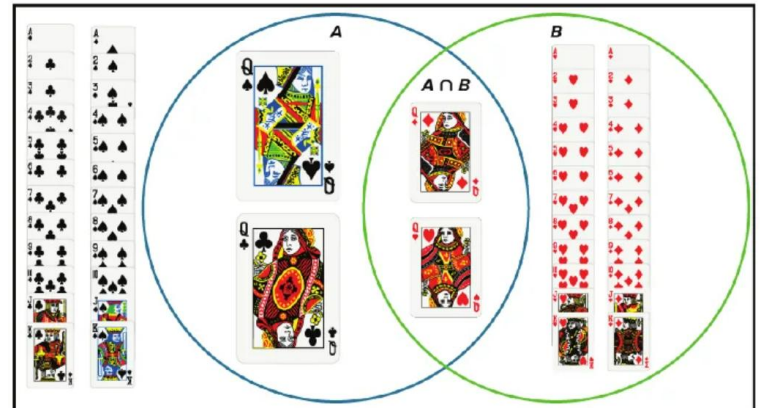


CHECK

LIFEGUARDING Braylen stands on an 8-foot platform and sights a swimmer at an angle of depression of 5° . If Braylen is 6 feet tall, how far away is the swimmer from the base of the platform to the nearest foot?

Example 2: Find Probability of Intersections

PLAYING CARDS A card is selected from a standard deck of cards. What is the probability that the card is a queen and is red?

**Example 3: Find Probability of Intersections**

A fair die is rolled once. Let A be the event of rolling a number less than 5, and let B be the event of rolling a multiple of 2. Find $A \cup B$.

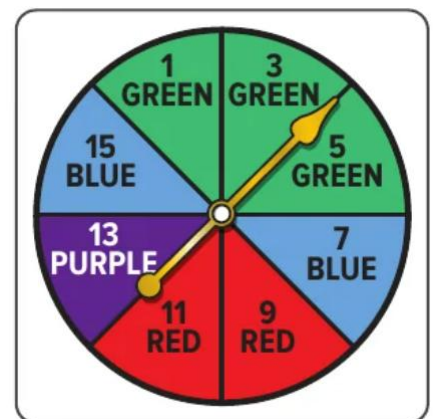
CHECK

Let A be the event of the spinner landing on a blue section, and let B be the event of the spinner landing on a section with a number divisible by 3. What are the possible outcomes of each event?

$$A = (7, _?)$$

$$B = (3, _?, 15)$$

$$A \cup B = (3, 7, 9, _?)$$



Example 3: Probability of Dependent Events

FOOD The pizza that Jose and Tessa are eating has 10 slices and is half cheese, half mushroom. Tessa spins the pizza around and randomly selects a slice of mushroom pizza. If Jose spins the pizza and selects a slice after that, what is the probability that both he and Tessa select a slice of mushroom pizza?

CHECK

SCHOOL On a math test, 5 out of 20 students got all the questions correct. If three students are chosen at random without replacement, what is the probability that all three got all the questions correct on the test?