أسئلة اختيار من متعدد في الهندسة والتشابه

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: 2026-11-06 23:28:17
المزيد من مادة رياضيات: ملفات ا كتب للمعلم ا كتب 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 ا للمدرس
إعداد: كرم أسعد

التواصل الاجتماعي بحسب الصف الحادي عشر العام					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف الحادي عشر العام والمادة رياضيات في الفصل الأول	
1	حل تجميع للهيكل مطابق لوصف الهيكل 2027 - منهج عربي
2	تجميع للهيكل مطابق لوصف الهيكل 2027 - منهج عربي
3	الهيكل الوزاري المعتمد 2027 ريفيل
4	ملزمة تدريبات تحليل الدوال من منظور التفاضل والتكامل
5	تجميع هيكل ريفيل 2027 مع حل

تحميل تطبيق المناهج للهواتف الذكية	
تطبيق المناهج على Store App (آبل)	تطبيق المناهج على Play Google (أندرويد)

ملزمة هيكل 11 عام

(ريفيل)

2026-2027

Mathematics

الترم الاول



إعداد

أ / كرم أسعد

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لا تتردد في التواصل معنا والاستعداد للامتحان بكل ثقة

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Multiple Choice Questions — أسئلة اختيار من متعدد

Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q1	Use scale factors to graph dilations	Example 3	117

1 $\triangle TRS$ has vertices $T(-4,-5)$, $R(0,6)$, and $S(4,3)$. Find the coordinates of the vertices of $\triangle T'R'S'$ after a dilation of $\triangle TRS$ by a scale factor of $\frac{1}{2}$.

(A) $T'(-4.5,-5.5)$, $R'(-0.5,5.5)$, $S'(3.5,2.5)$

(B) $T'(-2,-2.5)$, $R'(0,3)$, $S'(2,1.5)$

(C) $T'(-8,-10)$, $R'(0,12)$, $S'(8,6)$

(D) $T'(-2,-5)$, $R'(0,6)$, $S'(2,3)$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q2	Use proportions to identify similar polygons	Example 4	126

2 **STATE FAIR** Geoffrey plans on going to the state fair this summer. He has downloaded a map of the fairgrounds that shows all of the attractions. Geoffrey plans to visit the concert hall, the Ferris wheel, and the sports center. On the map, the distance between the concert hall and the Ferris wheel is 9 centimeters, the distance between the Ferris wheel and the sports center is 8 centimeters, and the distance between the sports center and the concert hall is 4 centimeters.



Part A Describe Geoffrey's path.

(A) A rectangle with sides of 9 cm and 8 cm

(B) A triangle: concert hall → Ferris wheel → sports center → back to the concert hall

(C) A path of two segments: 9 cm and then 8 cm, ending at the sports center

(D) A straight line from the concert hall to the sports center

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3 **STATE FAIR** Using the map distances (9 cm, 8 cm and 4 cm):

Part B Find the total distance Geoffrey travels on the map.

(A) 17 cm (B) 13 cm (C) 72 cm (D) 21 cm

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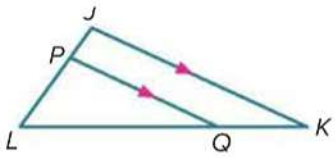
4 **STATE FAIR** If the actual distance between the concert hall and the sports center is 20 meters, how far will Geoffrey have to travel to visit all three attractions and then return to his starting point?

(A) 84 m (B) 21 m (C) 105 m (D) 420 m

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q3	Identify similar triangles using the AA postulate	Example 1	131

5 Determine whether the triangles are similar. Explain your reasoning.



(A) Not similar: PQ and JK have different lengths.

(B) Not similar: only one pair of congruent angles is given.

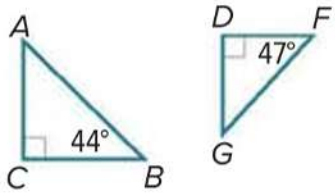
(C) Similar. PQ ∥ JK, so $\angle LPQ \cong \angle LJK$ (corresponding angles) and $\angle L$ is common; $\triangle LPQ \sim \triangle LJK$ by AA.

(D) Similar by SSS, because all three pairs of sides are equal.

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6 Determine whether the triangles are similar. Explain your reasoning.



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(A) Not similar. Each triangle has a right angle, but $44^\circ \neq 47^\circ$, so there are no two pairs of congruent angles.

(B) Similar by AA, because both triangles are right triangles.

(C) Similar, because 44° and 47° are both acute.

(D) Similar by SAS, because both triangles have a right angle.

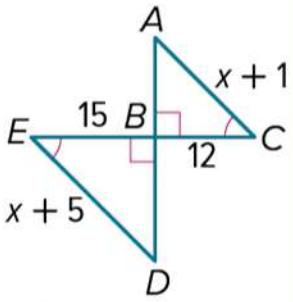
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q4	Identify similar triangles using the AA Similarity Postulate and the SSS and SAS Similarity Theorems	(9-11)	134

Identify the similar triangles. Then find each measure.

7 Book #9

9. AC



(A) $\triangle ABC \sim \triangle DBE;\ AC = 20$

(B) $\triangle ABC \sim \triangle DBE;\ AC = 16$

(C) $\triangle ABC \sim \triangle DBE;\ AC = 15$

(D) $\triangle ABC \sim \triangle EBD;\ AC = 16$

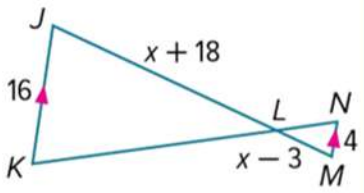
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8

Book #10

10. JL



(A) $\triangle JKL \sim \triangle MNL;\ JL = 7$

(B) $\triangle JKL \sim \triangle NML;\ JL = 21$

(C) $\triangle JKL \sim \triangle MNL;\ JL = 10$

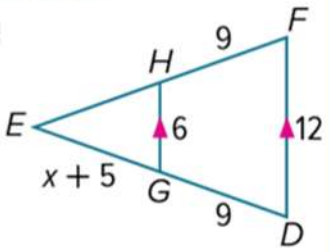
(D) $\triangle JKL \sim \triangle MNL;\ JL = 28$

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9

Book #11

11. EH



(A) $\triangle EHG \sim \triangle EFD;\ EH = 4$

(B) $\triangle EHG \sim \triangle EFD;\ EH = 18$

(C) $\triangle EHG \sim \triangle EDF;\ EH = 12$

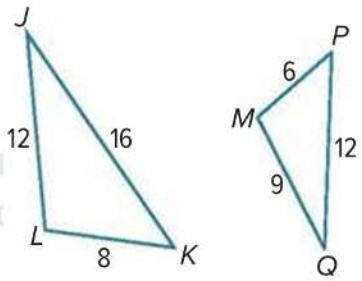
(D) $\triangle EHG \sim \triangle EFD;\ EH = 9$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q5	Identify similar triangles using the AA Similarity Postulate and the SSS and SAS Similarity Theorems	Example 1	135

10 Determine whether the triangles are similar. Explain your reasoning.



(A) Similar by SSS: $\frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{3}{4}$

(B) Similar by SAS: $\frac{6}{8} = \frac{12}{16}$ and the included angles are congruent.

(C) Not similar: the two triangles have different perimeters.

(D) Not similar: the corresponding sides are not proportional.

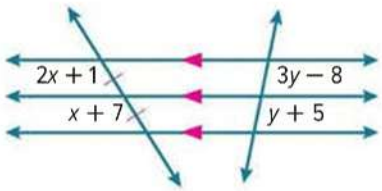
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q6	Use proportional parts within triangles	(11-12)	146

Find the values of *x* and *y*.

11 Book #11

11.



(A) $x = 5,\ y = 6.5$

(B) $x = 6,\ y = 4.5$

(C) $x = 8,\ y = 6.5$

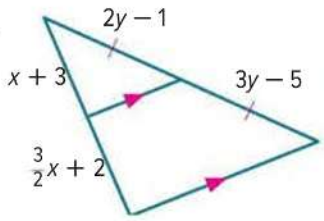
(D) $x = 6,\ y = 6.5$

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12 Book #12

12.



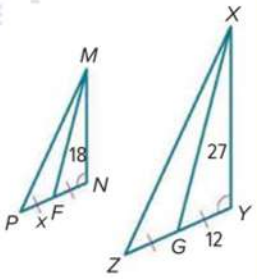
(A) $x = 4,\ y = 2$ (B) $x = 1,\ y = 4$ (C) $x = 2,\ y = 4$ (D) $x = 2,\ y = 6$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q7	Recognize and use proportional relationships of corresponding angle bisectors, altitudes, and medians of similar triangles	Example 1	150

13 In the figure, $\triangle MNP \sim \triangle XYZ$. Find the value of *x*.



(A) $x = 16$ (B) $x = 8$ (C) $x = 18$ (D) $x = 6$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q8	Find the geometric mean between two numbers	Example 1	162

14 Find the geometric mean between 5 and 45.

(A) 25 (B) 225 (C) 20 (D) 15

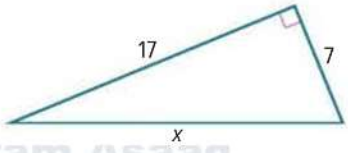
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q9	Use the Pythagorean Theorem	Example 1	167

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15 Find the value of x.



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(A) $x = 10$

(B) $x = \sqrt{240} = 4\sqrt{15} \approx 15.49$

(C) $x = \sqrt{338} \approx 18.38$

(D) $x = 24$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q10	Use the Pythagorean Theorem	Example 3	168

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16 **ZIP LINING** A summer camp is building a new zip lining course. The designer of the course wants the last zip line to start at a platform 450 meters above the ground and end 775 meters away from the base of the platform. How long must the zip line be to meet the designer's specifications?

Step 1 Visualize and describe the situation.

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(A) A right triangle whose legs are 450 m (height) and 775 m (horizontal distance); the zip line is the hypotenuse.

(B) An isosceles triangle with two sides of 450 m.

(C) A right triangle whose legs are 450 m and 775 m; the zip line is a leg.

(D) A right triangle whose hypotenuse is 775 m and whose one leg is 450 m.

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17 **ZIP LINING** A summer camp is building a new zip lining course. The designer of the course wants the last zip line to start at a platform 450 meters above the ground and end 775 meters away from the base of the platform. How long must the zip line be to meet the designer's specifications?

Step 2 Find the length of the zip line.

(A) ≈ 631.0 m (B) 325 m (C) 1225 m (D) ≈ 896.2 m

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q11	Find the distance between two points on the coordinate plane	Example 2	176

18 **MEDICINE** Doctors use three-dimensional coordinate systems for medical imaging. Medical imaging and positioning systems allow doctors to analyze a person's anatomy from a three-dimensional perspective. On an anatomical coordinate system, the top of a man's spine is located at $(5, 0, 65)$, and the bottom of his spine is located at $(3, 0, -6)$. If each unit on the coordinate system represents a centimeter, what is the length of the man's spine?

(A) $\sqrt{5045} \approx 71.03$ cm (B) $\sqrt{3485} \approx 59.03$ cm

(C) 5045 cm (D) 73 cm

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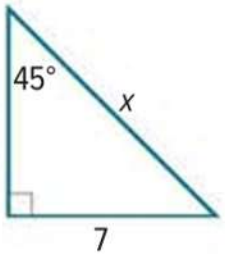
Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q12	Use the properties of 45°, 45°, 90° triangles	(1-6)	183

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REGULARITY **Find the value of *x*.**

19 Book #1

1.

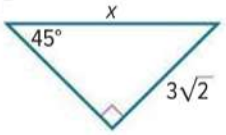


(A) $x = 7$ (B) $x = 14$ (C) $x = 7\sqrt{2}$ (D) $x = \frac{7\sqrt{2}}{2}$

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20 Book #2

2.

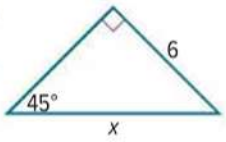


(A) $x = 6$ (B) $x = 3$ (C) $x = 3\sqrt{2}$ (D) $x = 6\sqrt{2}$

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21 Book #3

3.

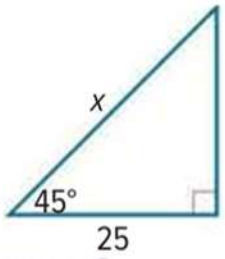


(A) $x = 3\sqrt{2}$ (B) $x = 6\sqrt{2}$ (C) $x = 12$ (D) $x = 6$

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22 Book #4

4.

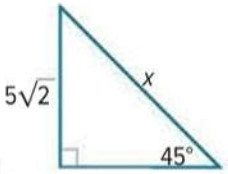


(A) $x = 25\sqrt{2}$ (B) $x = 25$ (C) $x = \frac{25\sqrt{2}}{2}$ (D) $x = 50$

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23 Book #5

5.

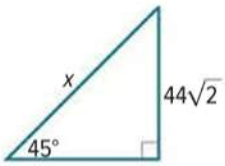


(A) $x = 5\sqrt{2}$ (B) $x = 10\sqrt{2}$ (C) $x = 10$ (D) $x = 5$

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24 Book #6

6.



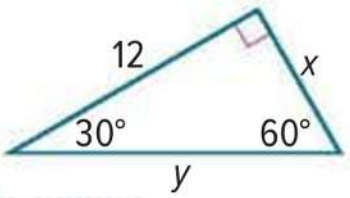
(A) $x = 88$ (B) $x = 44\sqrt{2}$ (C) $x = 88\sqrt{2}$ (D) $x = 44$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q13	Use the properties of 30°, 60°, 90° triangles	Example 4	181

25 Find the values of x and y.



(A) $x = 12\sqrt{3},\ y = 24$

(B) $x = 6,\ y = 6\sqrt{3}$

(C) $x = 4\sqrt{3},\ y = 8\sqrt{3}$

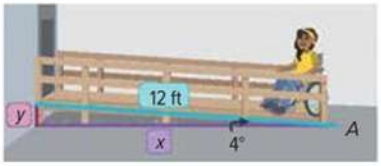
(D) $x = 8\sqrt{3},\ y = 4\sqrt{3}$

مساحة الحل • Working space

Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q14	Use trigonometric ratios to find side lengths and angle measures of right triangles	Example 3	188

26 **ACCESSIBILITY** Mathias builds a ramp so his sister can access the back door of their house. The 12-foot ramp to the house slopes upward from the ground at a 4° angle.

What is the height of the ramp?



(A) ≈ 172.03 ft

(B) ≈ 0.07 ft

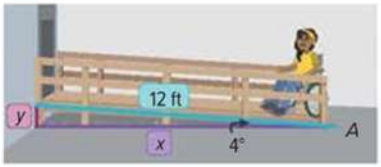
(C) ≈ 0.84 ft

(D) ≈ 11.97 ft

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27 **ACCESSIBILITY** Mathias builds a ramp so his sister can access the back door of their house. The 12-foot ramp to the house slopes upward from the ground at a 4° angle.

What is the horizontal distance between the foot of the ramp and the house?



(A) ≈ 12.03 ft

(B) ≈ 172.03 ft

(C) ≈ 0.84 ft

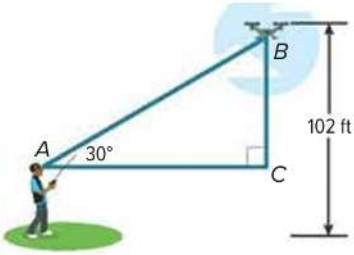
(D) ≈ 11.97 ft

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q15	Use trigonometric ratios to find side lengths and angle measures of right triangles	Example 1	195

28 **DRONES** Rakeem is flying his drone at the park. He spots the drone at an angle of elevation that he estimates to be 30°. The remote control tells Rakeem that his drone is 102 feet above the ground. If Rakeem is 6 feet tall, how far is he from the drone to the nearest foot?



(A) 48 ft (B) 192 ft (C) 166 ft (D) 204 ft

مساحة الحل • Working space

Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q16	Represent sample spaces	Example 2	366

29 **CLOTHING** Kembe has a black hat and a red hat. He chooses one hat each day, Saturday and Sunday. Represent the sample space for this experiment by making an organized list, a table, and a tree diagram.

(a) Which organized list is the sample space? (B = black, R = red; Saturday first)

(A) $\{B, R\}$ (B) $\{BB, RR\}$ (C) $\{BB, BR, RR\}$ (D) $\{BB, BR, RB, RR\}$

مساحة الحل • Working space

30 **CLOTHING** Kembe has a black hat and a red hat. He chooses one hat each day, Saturday and Sunday. Represent the sample space for this experiment by making an organized list, a table, and a tree diagram.

(b) Which table correctly represents the sample space? (rows: Saturday, columns: Sunday)

(A)

	Sun: B	Sun: R
Sat: B	BB	BR
Sat: R	RB	RR

(B)

	Sun: B	Sun: R
Sat: B	BB	RB
Sat: R	BR	RR

(C)

	Sun: B	Sun: R
Sat: B	BB	BR
Sat: R	RR	RB

(D)

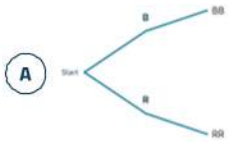
	Sun: B	Sun: R
Sat: B	BB	BR
Sat: R	BR	RR

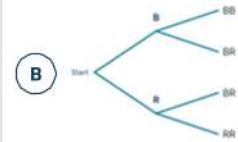
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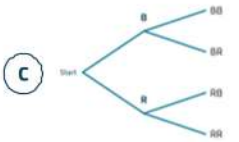
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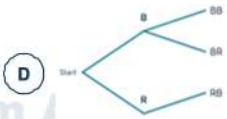
31 **CLOTHING** Kembe has a black hat and a red hat. He chooses one hat each day, Saturday and Sunday. Represent the sample space for this experiment by making an organized list, a table, and a tree diagram.

(c) Which tree diagram correctly represents the sample space?

A 

B 

C 

D 

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q17	Use the Fundamental Counting Principle to count outcomes	Example 1	365

32 A fair die is tossed once.

a. What is the sample space of the experiment?

A $\{2, 4, 6\}$

B $\{0, 1, 2, 3, 4, 5, 6\}$

C $\{1, 2, 3, 4, 5, 6\}$

D $\{1, 2, 3, 4, 5\}$

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33 A fair die is tossed once.

b. What is the sample space for the event of rolling a prime number? Write the outcomes to complete the sample space.

A $\{2, 3, 5\}$

B $\{1, 3, 5\}$

C $\{1, 2, 3, 5\}$

D $\{3, 5, 7\}$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q18	Find probabilities of dependent and independent events and solve related problems	Example 1	398

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34 **GAMING** 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?

(A) $\frac{39}{49}$ (B) $\frac{156}{245}$ (C) $\frac{4}{5}$ (D) $\frac{16}{25}$

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35 **GAMING** 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.

b. What assumption do you have to make in order to solve this problem?

(A) Ana is always paired with a friend on the first try.

(B) She is not paired with the same player twice (the second pairing is made from the remaining players), so the events are dependent.

(C) All 50 players online are friends of hers.

(D) Ana can be paired with the same player again, so the two pairings do not affect each other.

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q19	Find probabilities of events given the occurrence of other events and solve related problems	Example 3	400

36 **FOOD** The pizza that José 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 José spins the pizza and selects a slice after that, what is the probability that both he and Tessa select a slice of mushroom pizza?

(A) $\frac{4}{9}$ (B) $\frac{2}{9}$ (C) $\frac{5}{9}$ (D) $\frac{1}{4}$

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q20	Find the probability of mutually and non-mutually exclusive events and solve related problems	(13-15)	402

37 Book #13 **SPORTS** The format used to determine an overall champion varies by sport. One type of format used is the *best-of-seven series*, where up to seven games are played and four wins determine a champion. If you assume that each team has an equal chance of winning each game, what is the probability of a team winning the first four games in a best-of-seven series?

(A) $\frac{1}{4}$ (B) $\frac{1}{8}$ (C) $\frac{1}{16}$ (D) $\frac{4}{7}$

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38 Book #14 **BUSINESS** A sales management team consists of three directors and three assistant directors. To ensure that each team member has an equal chance to be chosen to represent the team at a national conference, all 6 names are placed into a hat and four names are simultaneously drawn at random. What is the probability that those chosen will consist of 3 directors and 1 assistant director?

(A) $\frac{3}{10}$ (B) $\frac{1}{5}$ (C) $\frac{1}{2}$ (D) $\frac{1}{15}$

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39

Book #15

MAGIC Iris performs a magic trick in which she holds a standard deck of cards and has each of three people randomly choose a card from the deck. Each person keeps his or her card as the next person draws. What is the probability that all three people will draw a heart?

(A) $\frac{1}{64}$ (B) $\frac{3}{52}$ (C) $\frac{1}{17}$ (D) $\frac{11}{850}$

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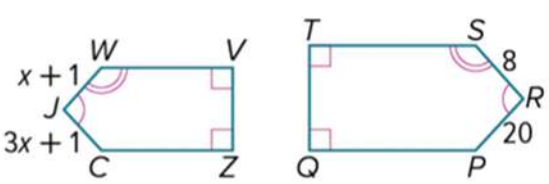
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q21	Solve problems using the properties of similar polygons	(11-14)	128

Each pair of polygons is similar. Find the value of *x*.

1 Book #11

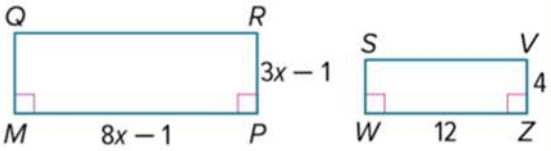
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2 Book #12

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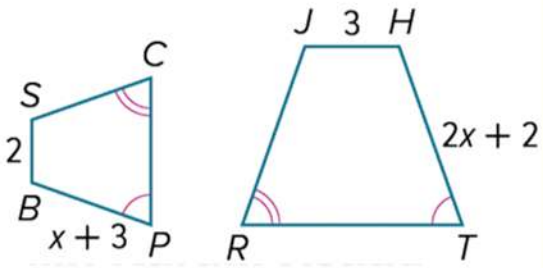
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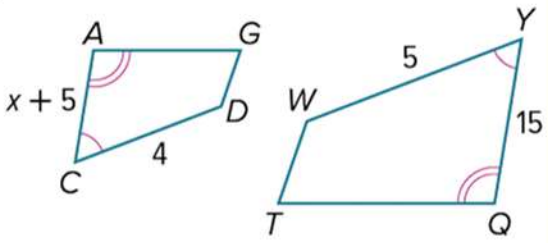
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Book #14

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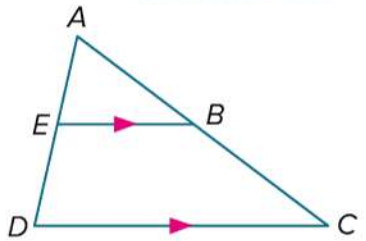
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q22	Use proportional parts within triangles	(1-4)	145

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5 Book #1

Use the figure.



1. If $AB = 6,\ BC = 4$, and $AE = 9$, find ED.

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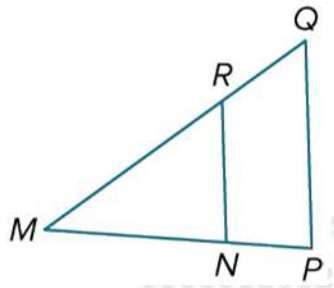
6 Book #2

2. If $AB = 12,\ AC = 16$, and $ED = 5$, find AE.

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7 Book #3

Determine whether $\overline{NR} \parallel \overline{PQ}$. Justify your answer.



3. $PM = 18,\ PN = 6,\ QM = 24$, and $RM = 16$

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8 Book #4

4. $QM = 31,\ RM = 21$, and $PM = 4PN$

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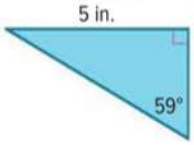
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q23	Use trigonometric ratios to find side lengths and angle measures of right triangles	(30-32)	193

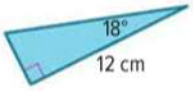
9 Book #30-32

REASONING Find the perimeter and area of each triangle. Round to the nearest hundredth.

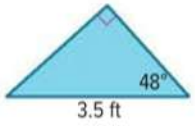
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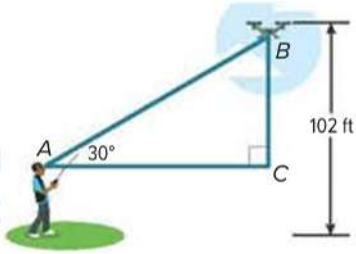
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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q24	Solve applied problems involving angles of elevation and depression	Example 1	195

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10 **DRONES** Rakeem is flying his drone at the park. He spots the drone at an angle of elevation that he estimates to be 30°. The remote control tells Rakeem that his drone is 102 feet above the ground. If Rakeem is 6 feet tall, how far is he from the drone to the nearest foot?



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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q25	Find probabilities of dependent and independent events and solve related problems	(18-20)	403

11 Book #18 Sunita and Derek work for a company that produces microchips. Part of their job is to estimate the number of defective chips given the total number produced. The table shows the estimated contents of 2 boxes of microchips. Use this information for Exercises 18 and 19.

	Number of Chips	Defective
Box A	100	4%
Box B	150	2%

18. Derek randomly selects one chip from Box B, does not put it back, and then randomly selects another chip from Box B. What is the probability that both chips are defective? Explain.

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12

Book #19

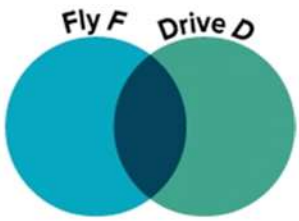
19. Sunita randomly selects one chip from Box A, and then she randomly selects another chip from Box A. The probability that both chips are defective is $\frac{1}{625}$. Did Sunita replace the first chip before selecting the second one? Explain.

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13

Book #20

TRAVEL A travel agency conducts a survey to determine whether people drive (*D*) or fly (*F*) to their vacation destinations. The results indicated that $P(D) = 0.6,\ P(D \cap F) = 0.2$, and the probability that a family did not vacation is 0.1.



a. What is the probability that a family reached their vacation destination by flying?

b. What is the probability that a family that drives will also fly?

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Q	LEARNING OUTCOME	REVEAL (ENGLISH)	PAGE
Q26	Find the probability of mutually and non-mutually exclusive events and solve related problems	Example 3	408

14

A game piece is selected at random from the plate at the right. What is the probability that the game piece is round or orange?



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