

Read the statement below, draw a picture, and solve for the missing angle.

In triangle QRS, the measure of angle Q is 70°. Angle R is congruent to angle S. What is the measure of angle R in degrees?

q

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Read the statement below, draw a picture, and solve for the missing angle.

In triangle LMN, the measure of angle L is 32°. Angle M is a right angle. What is the measure of angle N in degrees?

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Read the statement below, draw a picture, and solve for the missing angle.

In triangle DEF, the measure of angle D is 122°. Angle E is acute and angle F is 19°. What is the measure of angle E in degrees?

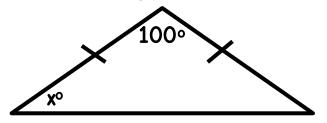
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Read the statement below, draw a picture, and solve for the missing angle.

In triangle XYZ, the measure of angle X is 40° and is congruent to angle Y. What is the measure of angle Z in degrees?

12

Which equation can be used to find the value of x?



A.
$$100 + x = 180$$

C.
$$100 + 2x = 180$$

B.
$$2(100 + x) = 180$$
 D. $180 - x = 100$

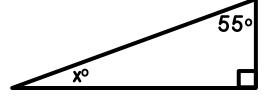
D.
$$180 - x = 100$$

13

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Which equation can be used to find the value of x?



A.
$$x + 55 = 180$$
 C. $x - 55 = 90$

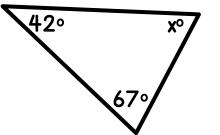
C.
$$x - 55 = 90$$

B.
$$2x + 55 = 180$$

B.
$$2x + 55 = 180$$
 D. $180 = x + 55 + 90$

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Which equation can be used to find the value of x?



A.
$$42 + 67 - x = 180$$

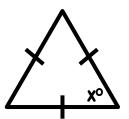
C.
$$109 = 180 + x$$

B.
$$x = 180 - 109$$

B.
$$x = 180 - 109$$
 D. $x + 42 = 67$

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Which equation can be used to find the value of x?



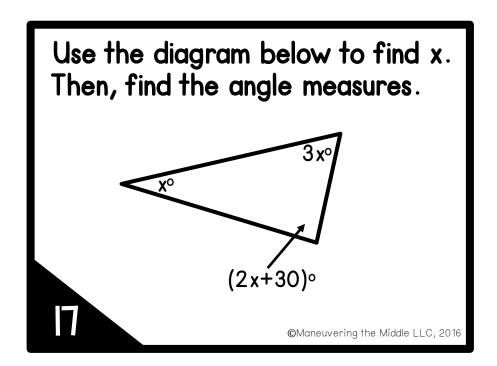
A.
$$3x = 180$$

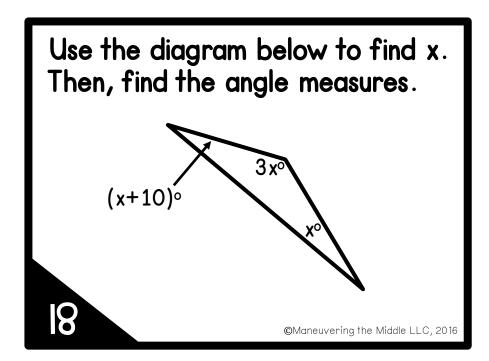
C.
$$x + x + x = 90$$

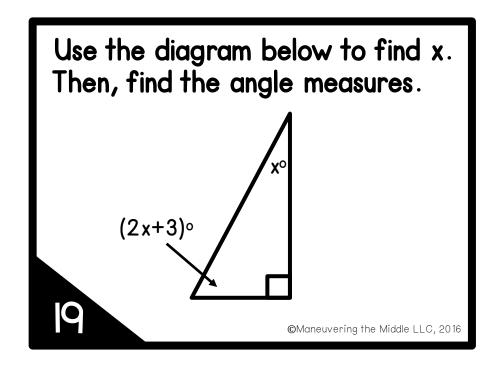
B.
$$x = 180$$

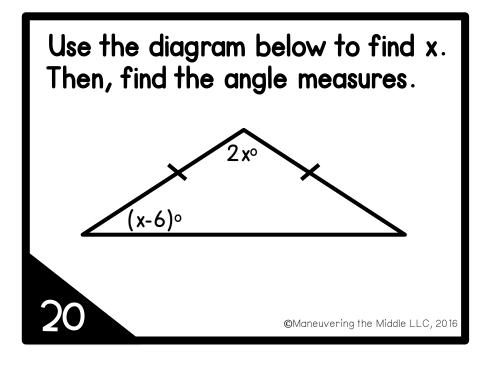
D.
$$x = 90$$

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Read the statement below, draw a picture, and solve for the missing angle.

In an isosceles triangle, one angle is 20° more than twice the measure of the one of the equal angles. Find the measures of each angle.

2

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Read the statement below, draw a picture, and solve for the missing angle.

In a scalene triangle the smallest angle is 10 less than the middle angle. The largest angle is twice the middle angle. Find the measures of each angle.

22

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Read the statement below, draw a picture, and solve for the missing angle.

In an isosceles triangle, one angle is 25° more than three times the measure of the one of the equal angles. Find the measures of each angle.

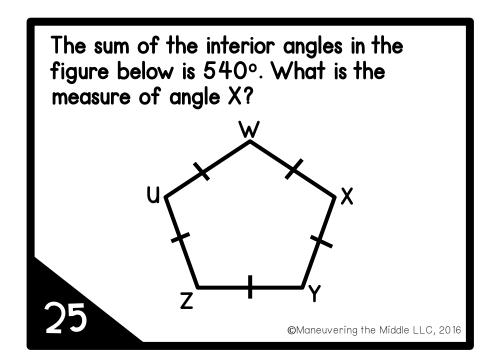
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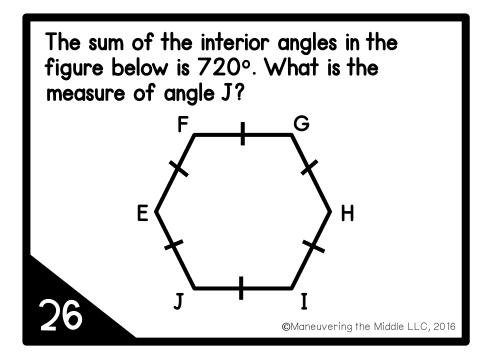
Read the statement below, draw a picture, and solve for the missing angle.

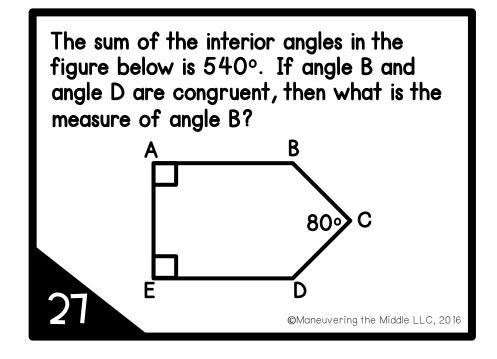
A right triangle has two equal angles. Find the measure of each angle.

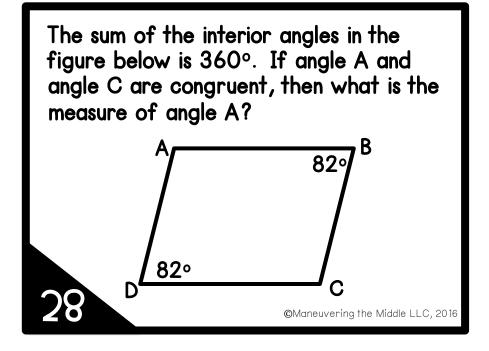
24

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Unit:	Angles	&	Triangles
Task	Cards		

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ate	Pd	

WRITING EQUATIONS WITH GEOMETRY CONCEPTS

Show your work for each problem in the correct box.

	2	3	4
5	6	7	∞
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13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28

Unit:	Angles &	Triangles
Task	Cards	

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WRITING EQUATIONS WITH GEOMETRY CONCEPTS

Show your work for each problem in the correct box.

I		2		3		4	
	112°		74 °		34°		50°
5		6		7		8	
	Yes, <a 45°<="" =="" th=""><th></th><th>No, <a 109°<="" =="" th=""><th></th><th>No, <a 120°<="" =="" th=""><th></th><th>Yes, <a 78°<="" =="" th=""></th></th></th>		No, <a 109°<="" =="" th=""><th></th><th>No, <a 120°<="" =="" th=""><th></th><th>Yes, <a 78°<="" =="" th=""></th></th>		No, <a 120°<="" =="" th=""><th></th><th>Yes, <a 78°<="" =="" th=""></th>		Yes, <a 78°<="" =="" th="">
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13		14	15		16	
	С	D		В		Α
17		18	19		20	
	x = 25	x = 34		x = 29		x = 48
	25°, 75°, 80°	34°, 102°, 44°		29°, 90°, 61°		96°, 42°, 42°
21		22	53		24	
	x = 40	x = 47.5		x = 31		x = 45
	40°, 40°, 100°	37.5°, 47.5°, 95°		31°, 31°, 118°		45°, 45°, 90°
25		26	27		28	
	108°	120°		140°		98°