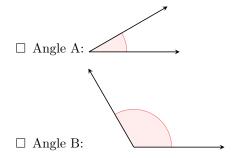
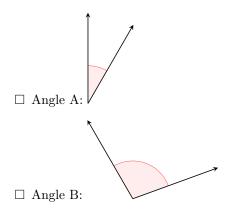
A WHAT IS AN ANGLE?

A.1 COMPARING ANGLES

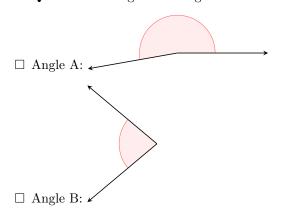
MCQ 1: Which angle has the greater measure?



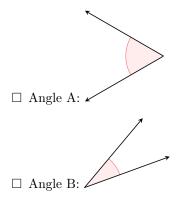
MCQ 2: Which angle has the greater measure?



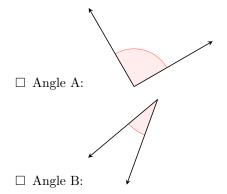
MCQ 3: Which angle has the greater measure?



MCQ 4: Which angle has the greater measure?

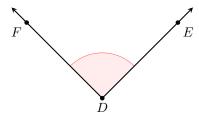


MCQ 5: Which angle has the greater measure?



A.2 NAMING ANGLES WITH THREE POINTS

MCQ 6: Which option correctly names the marked angle using three-point notation?

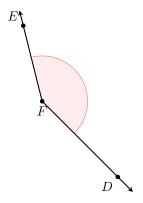


 $\square \angle DEF$

 $\square \ \angle FDE$

 \square $\angle DFE$

MCQ 7: Which option correctly names the marked angle using three-point notation?

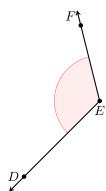


 $\square \angle DEF$

 $\square \angle FDE$

 $\square \ \angle DFE$

MCQ 8: Which option correctly names the marked angle using three-point notation?

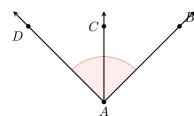


 $\square \angle DEF$

 $\square \angle FDE$

 $\square \angle DFE$

MCQ 9: Which option correctly names the marked angle using three-point notation?



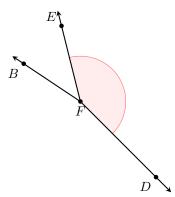
 $\square \angle ADC$

 $\square \angle CAB$

 $\square \angle DAB$

 $\square \angle DAC$

MCQ 10: Which option correctly names the marked angle using three-point notation?



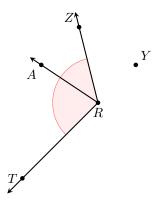
 $\square \angle BFD$

 $\square \angle FDE$

 $\square \angle DFE$

 $\square \ \angle BFE$

MCQ 11: Which option correctly names the marked angle using three-point notation?



 $\square \angle TRY$

 $\square \angle ZRT$

 $\square \angle ZRA$

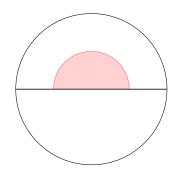
 $\square \angle RZT$

B DEGREES

B.1 DIVIDING THE FULL TURN

Ex 12:

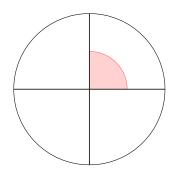




One-half of a full turn measures

Ex 13:

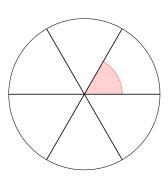




One-quarter of a full turn measures

Ex 14:

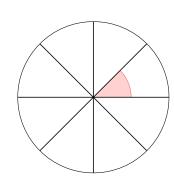




One-sixth of a full turn measures

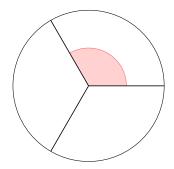
Ex 15:





One-eighth of a full turn measures ______o.



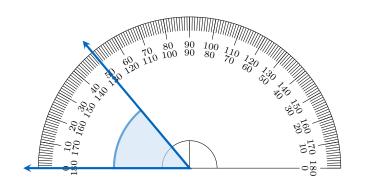


One-third of a full turn measures ______°.

C MEASURING AND DRAWING ANGLES WITH A PROTRACTOR

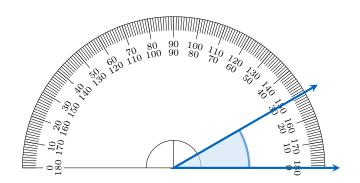
C.1 MEASURING ANGLES

Ex 17:



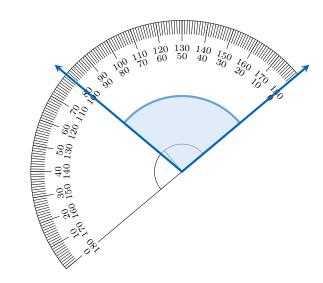
The angle shown measures _____o

Ex 18:



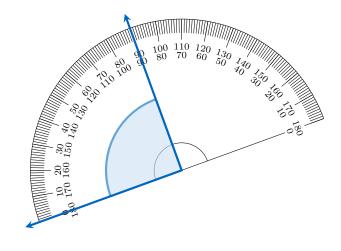
The angle shown measures

Ex 19:



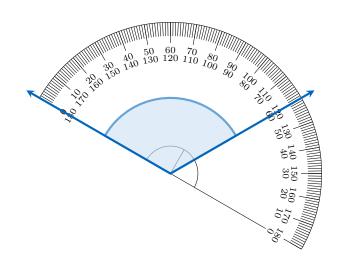
The angle shown measures

Ex 20:



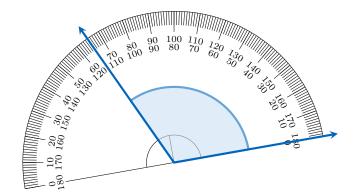
The angle shown measures ______o.

Ex 21:



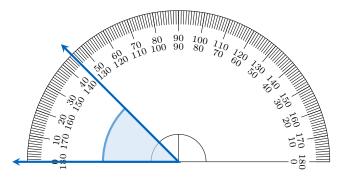
The angle shown measures

Ex 22:



The angle shown measures _____

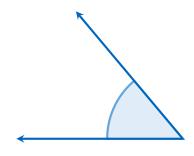
Ex 23:



The angle shown measures _____

C.2 MEASURING ANGLES

MCQ 24: Using a protractor, find the measure of the angle shown.



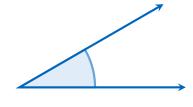
□ 30°

□ 50°

□ 90°

□ 130°

MCQ 25: Using a protractor, find the measure of the angle shown.



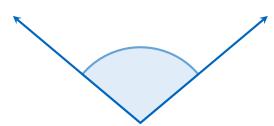
□ 30°

□ 50°

□ 90°

 $\square \ 130^{\circ}$

MCQ 26: Using a protractor, find the measure of the angle shown.



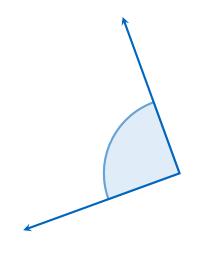
□ 30°

 $\square \ 50^{\circ}$

□ 100°

□ 130°

MCQ 27: Using a protractor, find the measure of the angle shown.



□ 30°

□ 50°

□ 90°

□ 130°

MCQ 28: Using a protractor, find the measure of the angle shown.



□ 30°

□ 50°

□ 90°

□ 120°

C.3 CONSTRUCTING ANGLES	
Ex 29: Using a pencil, a ruler, and a protractor, draw an angle that measures 90°.	7
	D CLASSIFICATION OF ANGLES
	D.1 IDENTIFYING ANGLE TYPES BY MEASURE
	MCQ 33: What is the nature of the marked angle?
	40°
Ex 30: Using a pencil, a ruler, and a protractor, draw an angle that measures 60°.	
	Choose one answer:
	☐ Acute angle ☐ Right angle
	☐ Obtuse angle
	☐ Straight angle
	MCQ 34: What is the nature of the marked angle?
	110°
Ex 31: Using a pencil, a ruler, and a protractor, draw an angle that measures 120°.	Choose one answer:
	☐ Acute angle
	☐ Right angle
	□ Obtuse angle
	☐ Straight angle
	MCQ 35: What is the nature of the marked angle?
	90°
	Choose one answer:
Ex 32: Using a pencil, a ruler, and a protractor, draw an angle that measures 45° .	☐ Acute angle
	□ Right angle
	□ Obtuse angle
	☐ Straight angle

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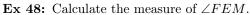
MCQ 36: What is the nature of the marked angle?	\Box straight angle
45°	MCQ 40: Identify the type of the highlighted angle.
Choose one answer:	
☐ Acute angle	
☐ Right angle	Choose one answer:
☐ Obtuse angle	
☐ Straight angle	\square acute angle
MCQ 37: What is the nature of the marked angle?	\square right angle
135°	\Box obtuse angle
	\Box straight angle
Choose one answer:	MCQ 41: Identify the type of the highlighted angle.
☐ Acute angle	/
□ Right angle	
□ Obtuse angle	
\square Straight angle	
D.2 IDENTIFYING ANGLE TYPES	
MCQ 38: Identify the type of the highlighted angle.	Choose one answer:
	\square acute angle
	\Box right angle
	\Box obtuse angle
Choose one answer:	
\Box acute angle	\square straight angle
\Box right angle	D.3 CONSTRUCTING ANGLE TYPES
\square obtuse angle	
\Box straight angle	Ex 42: Using a pencil, a ruler, and a protractor, draw an acute angle.
MCQ 39: Identify the type of the highlighted angle.	
Choose one answer:	
\Box acute angle	
☐ right angle	

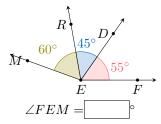
 \mathbf{Ex} 43: Using a pencil, a ruler, and a protractor, draw an obtuse angle.

 \Box obtuse angle

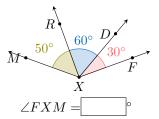


Ex 44: Using a pencil, a ruler, and a protractor, draw a right angle.

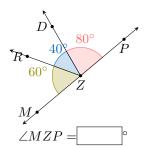




Ex 49: Calculate the measure of $\angle FXM$.



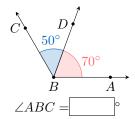
Ex 50: Calculate the measure of $\angle MZP$.



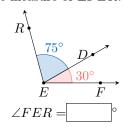
E ANGLE ADDITION

E.1 ADDING ANGLES

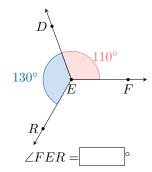
Ex 45: Calculate the measure of $\angle ABC$.



Ex 46: Calculate the measure of $\angle FER$.

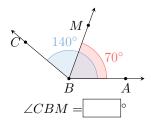


Ex 47: Calculate the measure of $\angle FER$.

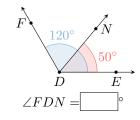


E.2 SUBTRACTING ANGLES

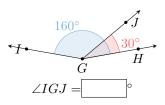
Ex 51: Calculate the measure of $\angle CBM$.



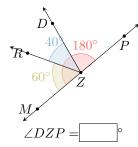
Ex 52: Calculate the measure of $\angle FDN$.



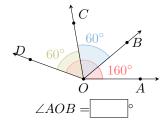
Ex 53: Calculate the measure of $\angle IGJ$.



Ex 54: Calculate the measure of $\angle DZP$ by subtracting the known angles from the larger angle using the angle addition postulate.



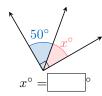
Ex 55: Calculate the measure of $\angle AOB$ by subtracting the known angles from the larger angle using the angle addition postulate.



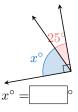
F ANGLE PROPERTIES

F.1 CALCULATING AN UNKNOWN ANGLE IN A RIGHT ANGLE

Ex 56: Calculate the measure of the unknown angle.



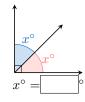
Ex 57: Calculate the measure of the unknown angle.



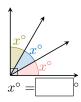
Ex 58: Calculate the measure of the unknown angle.



Ex 59: Calculate the measure of the unknown angle.

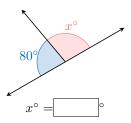


 \mathbf{Ex} 60: Calculate the measure of the unknown angle.

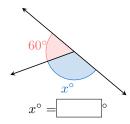


F.2 CALCULATING AN UNKNOWN ANGLE IN A STRAIGHT ANGLE

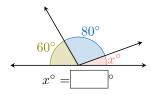
Ex 61: Calculate the measure of the unknown angle.



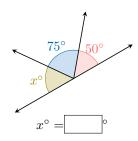
Ex 62: Calculate the measure of the unknown angle.



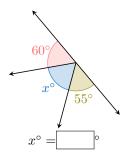
Ex 63: Calculate the measure of the unknown angle.



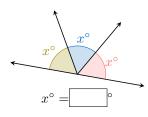
Ex 64: Calculate the measure of the unknown angle.



Ex 65: Calculate the measure of the unknown angle.

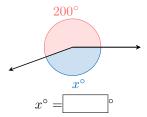


Ex 66: Calculate the measure of the unknown angle.

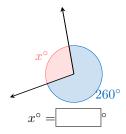


F.3 CALCULATING AN UNKNOWN ANGLE IN A FULL ANGLE

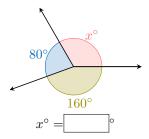
Ex 67: Calculate the measure of the unknown angle.



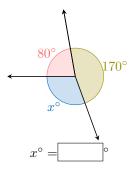
Ex 68: Calculate the measure of the unknown angle.



Ex 69: Calculate the measure of the unknown angle.



Ex 70: Calculate the measure of the unknown angle.



 $\mathbf{Ex}\ \mathbf{71:}\ \mathbf{Calculate}\ \mathbf{the}\ \mathbf{measure}\ \mathbf{of}\ \mathbf{the}\ \mathbf{unknown}\ \mathbf{angle}.$

