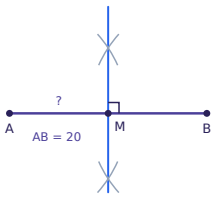
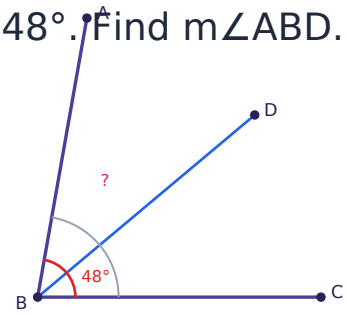
Task card 1 Constructions: Bisectors, Copies &...

The perpendicular bisector of AB meets AB at M. AB = 20. Find AM.



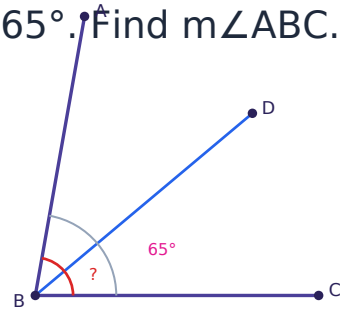
Task card 2 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 48°. Find m∠ABD.



Task card 3 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠DBC = 65°. Find m∠ABC.

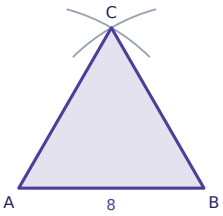


Task card 4 Constructions: Bisectors, Copies &...

∠DEF is constructed as a copy of ∠ABC, and m∠ABC = 76°. Find m∠DEF.

Task card 5 Constructions: Bisectors, Copies &...

An equilateral triangle ABC is constructed on AB = 8 with a compass. Find m∠CAB.

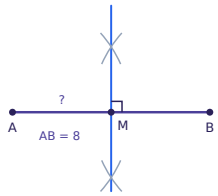


Task card 6 Constructions: Bisectors, Copies &...

Which construction do these steps make? Put the compass point on the vertex B and draw an arc that crosses both sides of the angle. From each crossing point, draw an arc inside the angle with the same width. Draw a ray from B through the point where these two arcs cross. A) a copy of a segment B) an equilateral triangle C) a copy of an angle D) the bisector of an angle

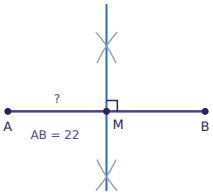
Task card 7 Constructions: Bisectors, Copies &...

The perpendicular bisector of AB meets AB at M. AB = 8. Find AM.



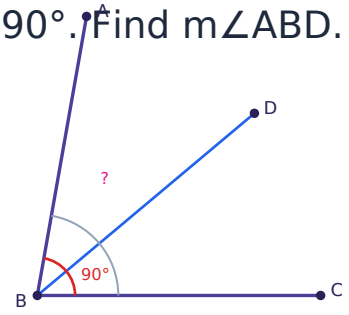
Task card 8 Constructions: Bisectors, Copies &...

The perpendicular bisector of AB meets AB at M. AB = 22. Find AM.



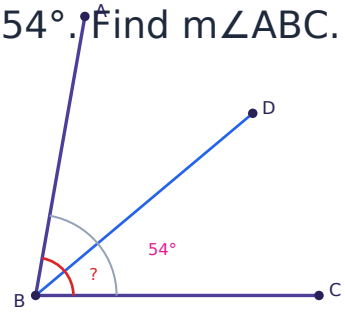
Task card 9 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 90°. Find m∠ABD.



Task card 10 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠DBC = 54°. Find m∠ABC.

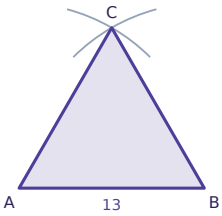


Task card 11 Constructions: Bisectors, Copies &...

∠DEF is constructed as a copy of ∠ABC, and m∠ABC = 108°. Find m∠DEF.

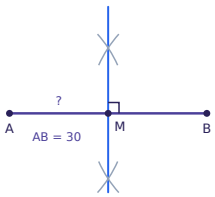
Task card 12 Constructions: Bisectors, Copies &...

An equilateral triangle ABC is constructed on AB = 13 with a compass. Find m∠CAB.



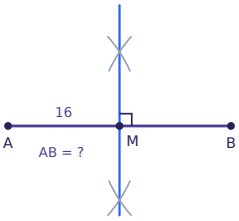
Task card 13 Constructions: Bisectors, Copies &...

The perpendicular bisector of AB meets AB at M. AB = 30. Find AM.



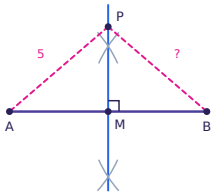
Task card 14 Constructions: Bisectors, Copies &...

Line ℓ is the perpendicular bisector of AB and meets it at M. AM = 16. Find AB.



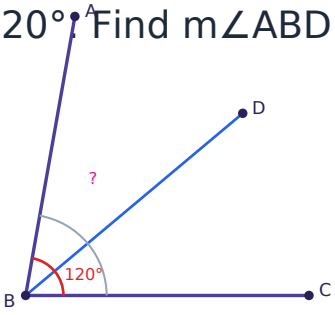
Task card 15 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = 5. Find PB.



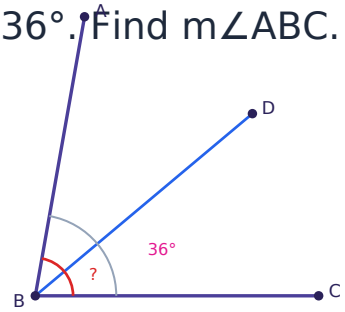
Task card 16 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 120°. Find m∠ABD.



Task card 17 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠DBC = 36°. Find m∠ABC.

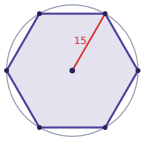


Task card 18 Constructions: Bisectors, Copies &...

Which construction do these steps make? Set the compass to the length of AB. Draw an arc with the point on A, then an arc with the point on B, using the same width. Connect A and B to the point where the two arcs cross. A) an equilateral triangle B) the perpendicular bisector of a segment C) a copy of a segment D) a copy of an angle

Task card 19 Constructions: Bisectors, Copies &...

A regular hexagon is constructed in a circle of radius 15. Find the measure of each interior angle of the hexagon.

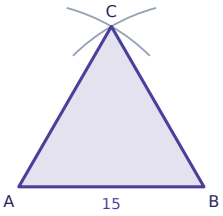


Task card 20 Constructions: Bisectors, Copies &...

Segment AB is 12 cm long. It is copied 5 times end to end along a ray starting at C, to make segment CD. How long is CD?

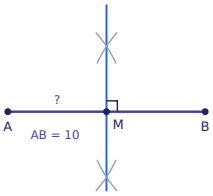
Task card 21 Constructions: Bisectors, Copies &...

An equilateral triangle ABC is constructed on AB = 15 with a compass. Find m∠CAB.



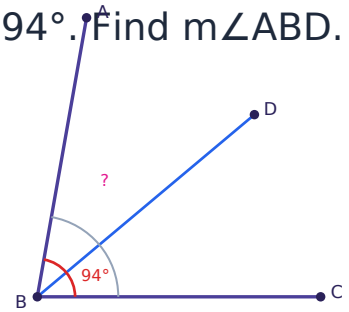
Task card 22 Constructions: Bisectors, Copies &...

The perpendicular bisector of AB meets AB at M. AB = 10. Find AM.



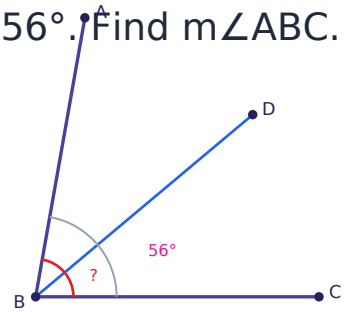
Task card 23 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 94°. Find m∠ABD.



Task card 24 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠DBC = 56°. Find m∠ABC.



Constructions: Bisectors, Copies & Inscribed Polygons Task Cards

Recording sheet · Grade 10 · Give lengths and angle measures as numbers (a degree sign is optional); write a radical like 5√3. For questions with lettered choices, answer with the letter.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Constructions: Bisectors, Copies & Inscribed Polygons Task Cards: Answer Key

Grade 10 · Easy

The answers online

1. 10	**2.** 24	**3.** 130
4. 76	**5.** 60	**6.** D
7. 4	**8.** 11	**9.** 45
10. 108	**11.** 108	**12.** 60
13. 15	**14.** 32	**15.** 5
16. 60	**17.** 72	**18.** A
19. 120	**20.** 60	**21.** 60
22. 5	**23.** 47	**24.** 112