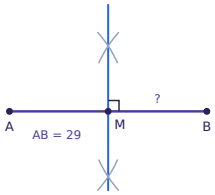
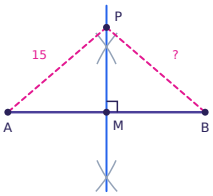
Task card 1 Constructions: Bisectors, Copies &...

The perpendicular bisector of AB meets AB at M. AB = 29. Find MB.



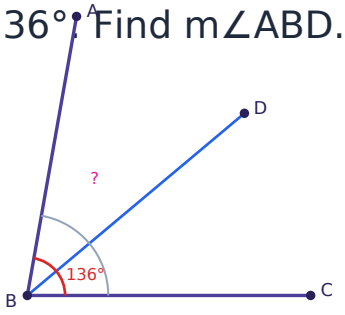
Task card 2 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = 15. Find PB.



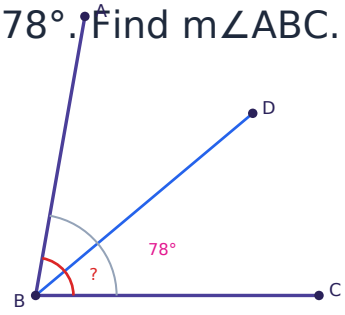
Task card 3 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 136°. Find m∠ABD.



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

BD bisects ∠ABC, and m∠DBC = 78°. Find m∠ABC.



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

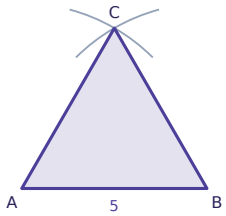
Which construction do these steps make? Set the compass to the length of AB. Draw an arc with the point on A, then an arc with the point on B, using the same width. Connect A and B to the point where the two arcs cross. A) a copy of a segment B) the perpendicular bisector of a segment C) a copy of an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

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

Segment AB is 3 cm long. It is copied 2 times end to end along a ray starting at C, to make segment CD. How long is CD?

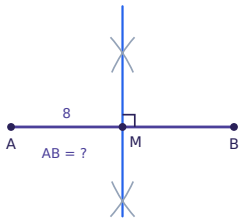
Task card 7 Constructions: Bisectors, Copies &...

An equilateral triangle ABC is constructed on AB = 5 with a compass. Find m∠CAB.



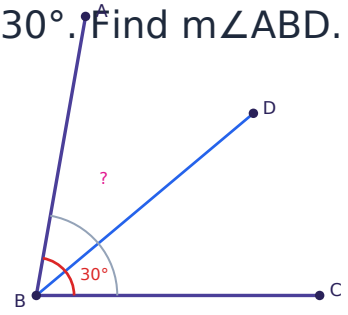
Task card 8 Constructions: Bisectors, Copies &...

Line ℓ is the perpendicular bisector of AB and meets it at M. AM = 8. Find AB.



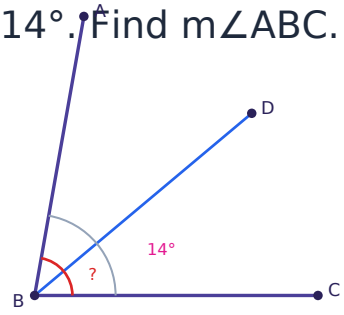
Task card 9 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 30°. Find m∠ABD.



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

BD bisects ∠ABC, and m∠DBC = 14°. Find m∠ABC.



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

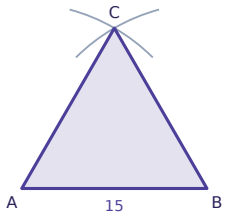
Which construction do these steps make? Set the compass to the length of AB. Draw an arc with the point on A, then an arc with the point on B, using the same width. Connect A and B to the point where the two arcs cross. A) the bisector of an angle B) a copy of a segment C) a copy of an angle D) an equilateral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

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

Segment AB is 5 cm long. It is copied 3 times end to end along a ray starting at C, to make segment CD. How long is CD?

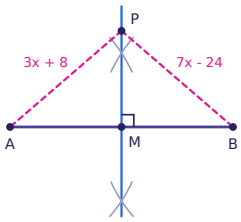
Task card 13 Constructions: Bisectors, Copies &...

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



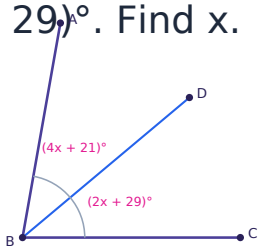
Task card 14 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = 3x + 8 and PB = 7x - 24. Find x.



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

BD bisects ∠ABC. m∠ABD = (4x + 21)° and m∠DBC = (2x + 29)°. Find x.



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

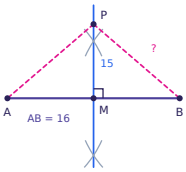
Which construction do these steps make? Draw a ray starting at point C. Open the compass to the length of AB. Put the compass point on C and draw an arc that crosses the ray at D. A) a copy of a segment B) a copy of an angle C) a regular hexagon inscribed in a circle D) an equilateral triangle

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

To construct the perpendicular bisector of AB = 31 cm, the compass must be opened to more than half of AB. What is the smallest whole number of centimeters that works?

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

P is on the perpendicular bisector of AB, which meets AB at M. AB = 16, PM = 15. Find PB.

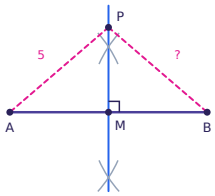


Task card 19 Constructions: Bisectors, Copies &...

An angle of 44° is copied 2 times, each copy placed next to the last so they share a side, starting from a side of the original angle. What is the measure of the large angle made by the original and its copies together?

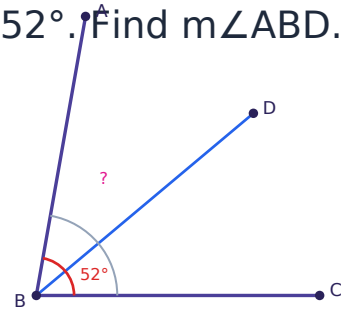
Task card 20 Constructions: Bisectors, Copies &...

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



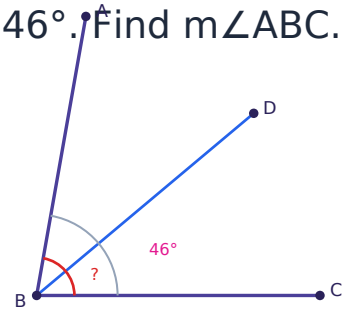
Task card 21 Constructions: Bisectors, Copies &...

BD bisects ∠ABC, and m∠ABC = 52°. Find m∠ABD.



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

BD bisects ∠ABC, and m∠DBC = 46°. Find m∠ABC.



Task card 23 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) a copy of a segment B) a copy of an angle C) an equilateral triangle D) the perpendicular bisector of a segment

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

Segment AB is 8 cm long. It is copied 3 times end to end along a ray starting at C, to make segment CD. How long is CD?

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 · Medium

The answers online

1. 14.5	**2.** 15	**3.** 68
4. 156	**5.** D	**6.** 6
7. 60	**8.** 16	**9.** 15
10. 28	**11.** D	**12.** 15
13. 60	**14.** 8	**15.** 4
16. A	**17.** 16	**18.** 17
19. 132	**20.** 5	**21.** 26
22. 92	**23.** C	**24.** 24