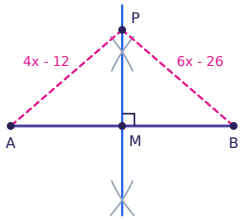
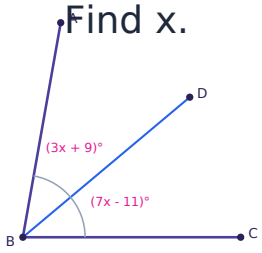
Task card 1 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = 4x - 12 and PB = 6x - 26. Find x.



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

BD bisects ∠ABC. m∠ABD = (3x + 9)° and m∠DBC = (7x - 11)°. Find x.

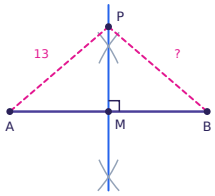


Task card 3 Constructions: Bisectors, Copies &...

To construct the perpendicular bisector of AB = 24 cm, the compass must be opened to more than half of AB. What is the smallest whole number of centimeters that works?

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

P is on the perpendicular bisector of AB. PA = 13. Find PB.

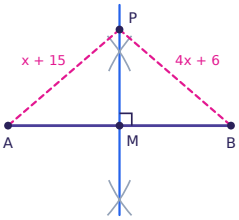


Task card 5 Constructions: Bisectors, Copies &...

An angle of 41° 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?

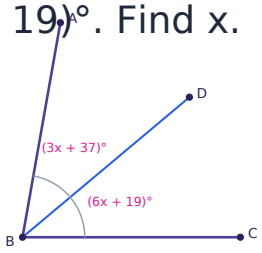
Task card 6 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = x + 15 and PB = 4x + 6. Find x.



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

BD bisects ∠ABC. m∠ABD = (3x + 37)° and m∠DBC = (6x + 19)°. Find x.



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

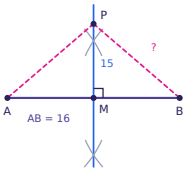
Which construction do these steps make? Draw a ray starting at point C. Open the compass to the length of AB. Put the compass point on C and draw an arc that crosses the ray at D. A) an equilateral triangle B) the bisector of an angle C) a copy of a segment D) the perpendicular bisector of a segment

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

To construct the perpendicular bisector of AB = 19 cm, the compass must be opened to more than half of AB. What is the smallest whole number of centimeters that works?

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

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

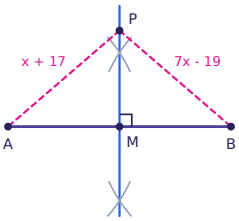


Task card 11 Constructions: Bisectors, Copies &...

An angle of 28° is copied 3 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?

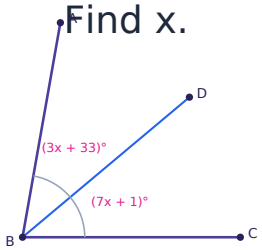
Task card 12 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = x + 17 and PB = 7x - 19. Find x.



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

BD bisects ∠ABC. m∠ABD = (3x + 33)° and m∠DBC = (7x + 1)°. Find x.



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

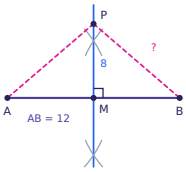
Which construction do these steps make? Draw a ray starting at point C. Open the compass to the length of AB. Put the compass point on C and draw an arc that crosses the ray at D. A) the perpendicular bisector of a segment B) a copy of a segment C) an equilateral triangle D) a copy of an angle

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

To construct the perpendicular bisector of AB = 29 cm, the compass must be opened to more than half of AB. What is the smallest whole number of centimeters that works?

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

P is on the perpendicular bisector of AB, which meets AB at M. AB = 12, PM = 8. Find PB.

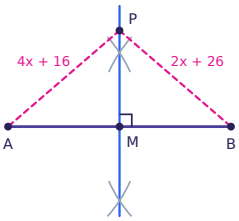


Task card 17 Constructions: Bisectors, Copies &...

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?

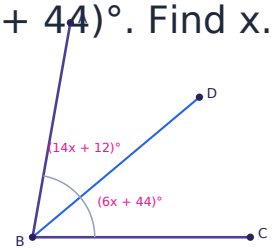
Task card 18 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = 4x + 16 and PB = 2x + 26. Find x.



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

BD bisects ∠ABC. m∠ABD = (14x + 12)° and m∠DBC = (6x + 44)°. Find x.



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

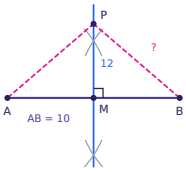
Which construction do these steps make? Set the compass to the length of AB. Draw an arc with the point on A, then an arc with the point on B, using the same width. Connect A and B to the point where the two arcs cross. A) a copy of a segment B) the bisector of an angle C) a copy of an angle D) an equilateral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

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

To construct the perpendicular bisector of AB = 16 cm, the compass must be opened to more than half of AB. What is the smallest whole number of centimeters that works?

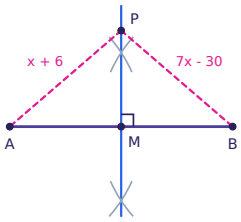
Task card 22 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB, which meets AB at M. AB = 10, PM = 12. Find PB.



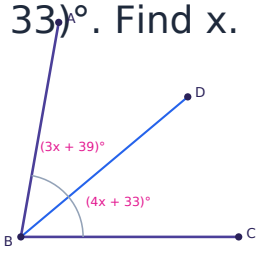
Task card 23 Constructions: Bisectors, Copies &...

P is on the perpendicular bisector of AB. PA = x + 6 and PB = 7x - 30. Find x.



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

BD bisects ∠ABC. m∠ABD = (3x + 39)° and m∠DBC = (4x + 33)°. Find x.



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 · Hard

The answers online

1. 7	**2.** 5	**3.** 13
4. 13	**5.** 123	**6.** 3
7. 6	**8.** C	**9.** 10
10. 17	**11.** 112	**12.** 6
13. 8	**14.** B	**15.** 15
16. 10	**17.** 132	**18.** 5
19. 4	**20.** D	**21.** 9
22. 13	**23.** 6	**24.** 6