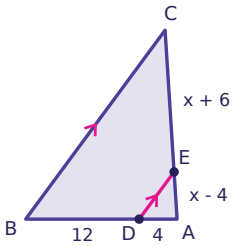
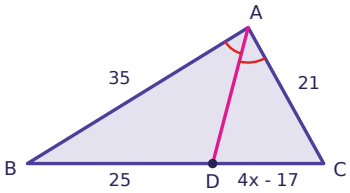
Task card 1 Triangle Proportionality & Angle B...

DE ∥ BC. AE = x - 4 and EC = x + 6. Find x.



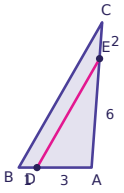
Task card 2 Triangle Proportionality & Angle B...

AD bisects ∠BAC. DC = 4x - 17. Find x.



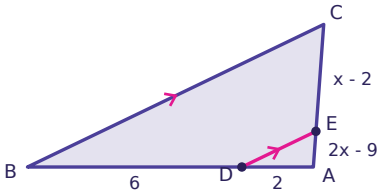
Task card 3 Triangle Proportionality & Angle B...

Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



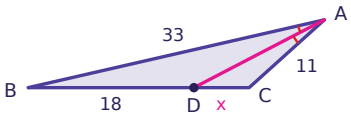
Task card 4 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 2x - 9 and EC = x - 2. Find x.



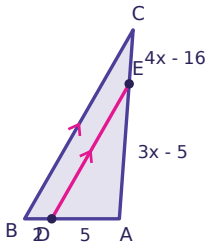
Task card 5 Triangle Proportionality & Angle B...

AD bisects ∠BAC. Find x.



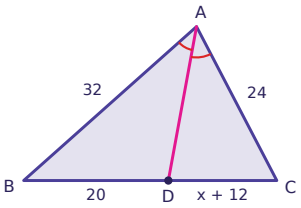
Task card 6 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 3x - 5 and EC = 4x - 16. Find x.



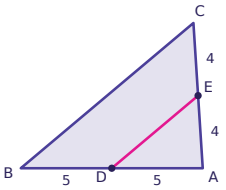
Task card 7 Triangle Proportionality & Angle B...

AD bisects ∠BAC. DC = x + 12. Find x.



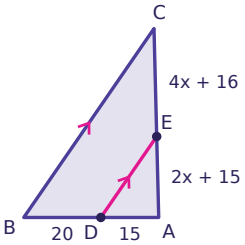
Task card 8 Triangle Proportionality & Angle B...

Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



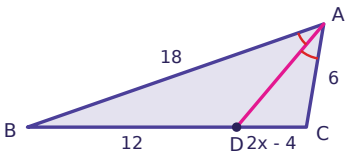
Task card 9 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 2x + 15 and EC = 4x + 16. Find x.



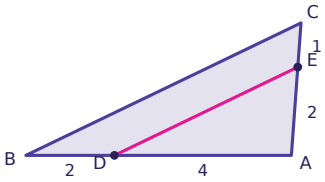
Task card 10 Triangle Proportionality & Angle B...

AD bisects ∠BAC. DC = 2x - 4. Find x.



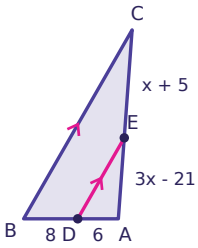
Task card 11 Triangle Proportionality & Angle B...

Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



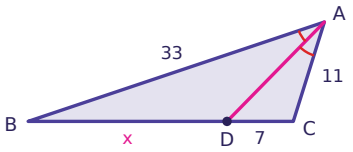
Task card 12 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 3x - 21 and EC = x + 5. Find x.



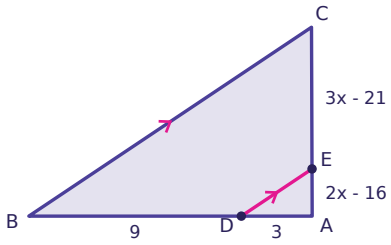
Task card 13 Triangle Proportionality & Angle B...

AD bisects ∠BAC. Find x.



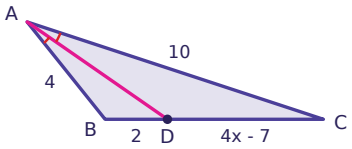
Task card 14 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 2x - 16 and EC = 3x - 21. Find x.



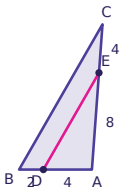
Task card 15 Triangle Proportionality & Angle B...

AD bisects ∠BAC. DC = 4x - 7. Find x.



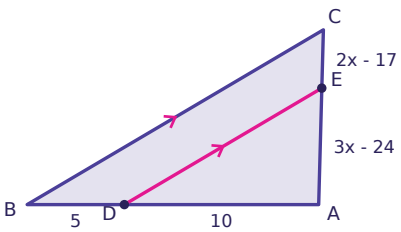
Task card 16 Triangle Proportionality & Angle B...

Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



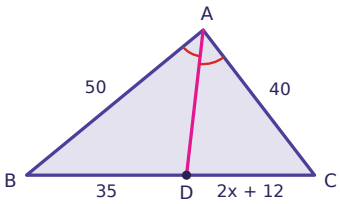
Task card 17 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 3x - 24 and EC = 2x - 17. Find x.



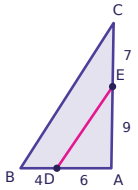
Task card 18 Triangle Proportionality & Angle B...

AD bisects ∠BAC. DC = 2x + 12. Find x.



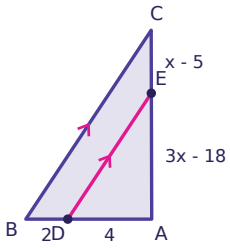
Task card 19 Triangle Proportionality & Angle B...

Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



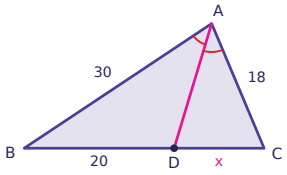
Task card 20 Triangle Proportionality & Angle B...

DE ∥ BC. AE = 3x - 18 and EC = x - 5. Find x.



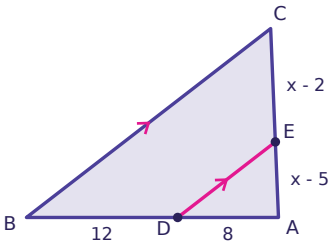
Task card 21 Triangle Proportionality & Angle B...

AD bisects ∠BAC. Find x.



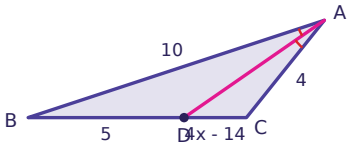
Task card 22 Triangle Proportionality & Angle B...

DE ∥ BC. AE = x - 5 and EC = x - 2. Find x.



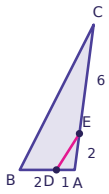
Task card 23 Triangle Proportionality & Angle B...

AD bisects ∠BAC. DC = 4x - 14. Find x.



Task card 24 Triangle Proportionality & Angle B...

Use the lengths in the diagram. Is DE parallel to BC? Answer yes or no.



Triangle Proportionality & Angle Bisector Theorems Task Cards

Recording sheet · Grade 10 · Use the diagram and the given information to answer each question.

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

Triangle Proportionality & Angle Bisector Theorems Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. 9	**2.** 8	**3.** yes
4. 5	**5.** 6	**6.** 5
7. 3	**8.** yes	**9.** 3
10. 4	**11.** yes	**12.** 11
13. 21	**14.** 9	**15.** 3
16. yes	**17.** 10	**18.** 8
19. no	**20.** 8	**21.** 12
22. 11	**23.** 4	**24.** no