

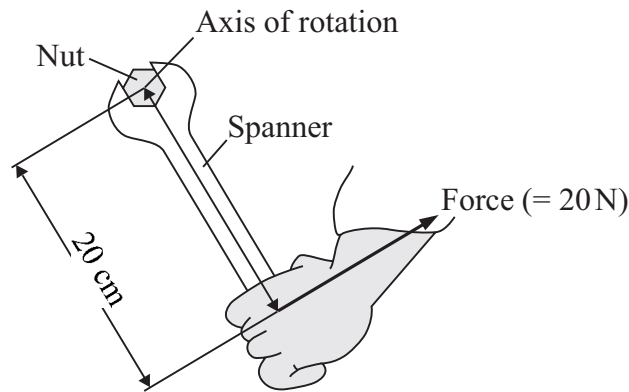
Answer **all** questions in the spaces provided.

1 A spanner gives a turning effect to undo a nut.

(a) Complete the sentence.

The turning effect of a force is called the of the force.
(1 mark)

(b) The diagram shows a spanner being used.



Use the equation in the box to calculate the spanner's turning effect in newton metres.

$\text{turning effect} = \text{force} \times \text{perpendicular distance from the line of action of the force to the axis of rotation}$
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Show clearly how you work out your answer.

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Turning effect = Nm
(2 marks)

(c) Give **two** ways in which you can increase the spanner's turning effect.

1

2

(2 marks)

5

