

Upper and lower bounds: Adding and subtracting



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1. A plank of wood is 3 ft to the nearest foot. Four planks are placed end to end.

a) Find the least possible length of the four planks of wood.

b) Find the greatest possible length of the four planks of wood.

2.

$$x = 30 \text{ to the nearest } 10$$

Work out the greatest possible value of $x + x + x + x + x$.

3. The heights of two people are 189 cm and 167 cm to the nearest cm.

Which calculation would find the greatest possible difference in their heights?

$$189.5 - 167.5 \quad 188.5 - 167.5$$

$$189.5 - 166.5 \quad 188.5 - 166.5$$

4. Amir has 4.3 litres of petrol to the nearest 100 ml. He uses 650 ml to nearest 50 ml. What is the maximum amount of petrol he has left?



Answers



Upper and lower bounds: Adding and subtracting

1. A plank of wood is 3 ft to the nearest foot. Four planks are placed end to end.

a) Find the least possible length of the four planks of wood. **10 ft**

b) Find the greatest possible length of the four planks of wood. **14 ft**

2.

$x = 30$ to the nearest 10

Work out the greatest possible value of $x + x + x + x + x$. **175**

3. The heights of two people are 189 cm and 167 cm to the nearest cm.

Which calculation would find the greatest possible difference in their heights?

$$189.5 - 167.5 \quad 188.5 - 167.5$$

$$189.5 - 166.5 \quad 188.5 - 166.5$$

4. Amir has 4.3 litres of petrol to the nearest 100 ml. He uses 650 ml to nearest 50 ml. What is the maximum amount of petrol he has left? **3.725 l**

