

Answer on Question #83261 – Math – Algebra

Question

if 10 men, working 7 hour a day dig a trench 147m long, how many men working 8 hour a day dig a trench 168m long?

Solution

10 men, working 7 hour a day dig a trench 147m long:

1) $147/7=21$ meters will be dug by 10 men in 1 hour

2) $21/10= 2.1$ meters will be dug by 1 man in 1 hour.

Working 8 hour a day to dig a trench 168m long:

3) $168/8=21$ meters will be dug by x men in 1 hour

4) $x=21/2.1$ is the number of men

$x=10$ men

Answer:

10 men