1. You need the following amounts of material. Determine the cost of the cardboard prism. Show your work. You only need to pay for what you use.

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| --- | --- | --- | --- |
| ITEM: Cardboard | ITEM: Noodles | ITEM: Glue | ITEM: Labour |
| YOU NEED: 900 cm2 | YOU NEED: 1400 mL | YOU NEED: 80 cm for edges20 dabs (enough for 10 wall braces) | YOU NEED: 1.5 hours |
| COST: 5000 cm2 costs $10 | COST: 2L costs $5  | COST: A glue stick costs $0.25 and can do 15 cm of edge or 4 dabs | COST: Worker makes $620 for her 40 hour week  |

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| YOU NEED: 900 cm2 | YOU NEED: 1400 mL | YOU NEED: 80 cm for edges20 dabs (enough for 10 wall braces) | YOU NEED: 1.5 hours |
| COST: A 50 cm x 80 cm piece costs $12 | COST: A box measuring 12 in x 12 in x 12 in costs $7  | COST: A pound of glue sticks costs $15. Each glue stick weighs 25 g. A glue stick can do 20 cm of edge or 8 dabs | COST: Builder is paid 40% more than Ontario’s minimum wage  |

*Some common conversions. You can look up others as needed, but state any conversion rates you use.*1 inch = 2.5 cm (approx.) 1 cm3 = 1 mL 1 foot = 12 inches 1 kg = 1000 g 1 dozen = 12 items
1 m = 100 cm 1 m = 3.3 feet (approx.) $1 = 100 cents 1L = 1000 mL 1 pound = 454 g

ANSWERS

1. Cardboard $1.8
Noodles $3.5
Edge Glue $1.33
Dab Glue $1.25
Labour $23.25
Total $31.13
2. Cardboard $2.7
Noodles $0.36
Edge Glue $3.3
Dab Glue $2.07
Labour $29.40
Total $37.83

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