#1

Ryan has built a model of his future house. The model walls are 70 cm tall and the roof is 14 cm tall. If Ryan knows he wants the roof on his real house to be 49 feet tall, then how high does Ryan need to make the walls?

[ ] feet

Show your work

#2

Choose the best answer

Caleb does a phone survey and finds that 92 people like vanilla ice cream best and 146 people like chocolate ice cream best. Caleb then checks an online poll and sees that 138 people said they liked vanilla ice cream the best. What is the best estimate for the online results of how many people like chocolate ice cream the best?

○ 219

○ 249

○ 282

○ 197

Show your work

#3

To monitor the deer population, park rangers marked 107 deer. A month later they flew over the park and noted 180 deer. Of the deer they saw 90 were marked. To the nearest whole number, what is the best estimate for the deer population?

[ ] estimate for the deer population

Show your work

#4
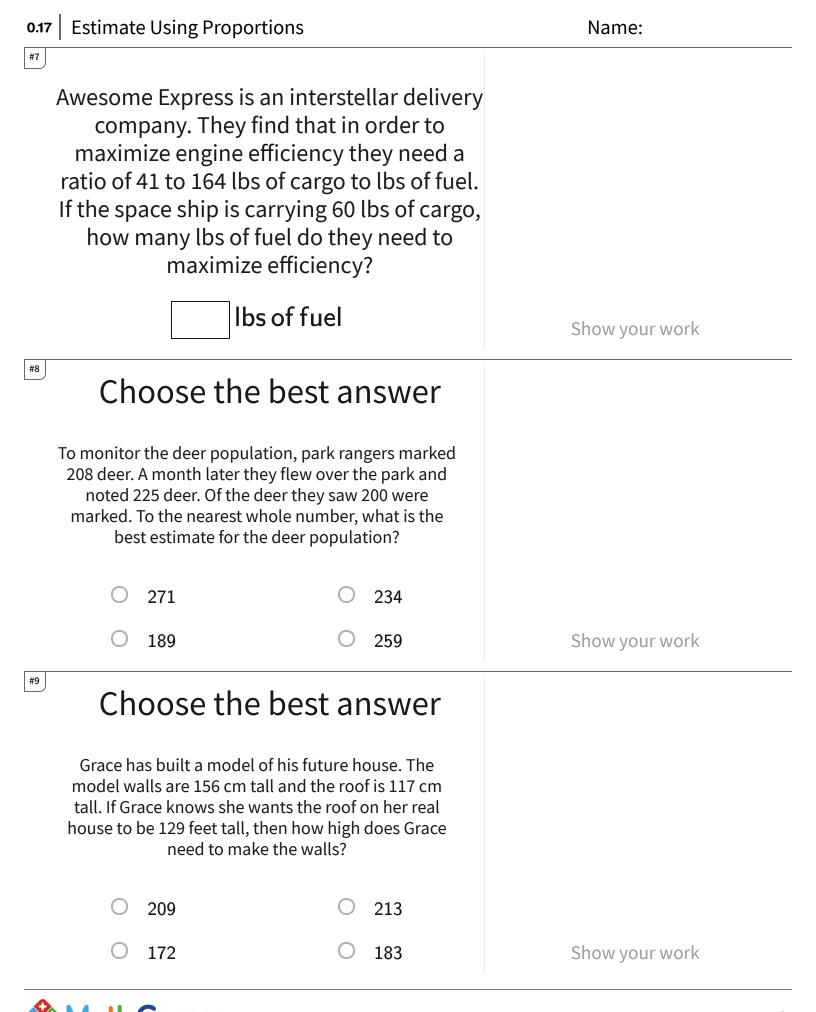
Choose the best answer

Kaylee has built a model of his future house. The model walls are 109 cm tall and the roof is 27 cm tall. If Kaylee knows she wants the roof on her real house to be 54 feet tall, then how high does Kaylee need to make the walls?

○ 259   ○ 269

○ 222   ○ 218   Show your work

#5

Darren is eating candy soothers and broccoli. He likes to have a ratio of 13 to 52 junk food to healthy food. If Darren eats 23 grams of candy soothers, then how many grams of broccoli must he eat?

[   ] grams of broccoli   Show your work

#6

Choose the best answer

To monitor the deer population, park rangers marked 174 deer. A month later they flew over the park and noted 176 deer. Of the deer they saw 132 were marked. To the nearest whole number, what is the best estimate for the deer population?

○ 174   ○ 232

○ 281   ○ 168   Show your work

#7

Awesome Express is an interstellar delivery company. They find that in order to maximize engine efficiency they need a ratio of 41 to 164 lbs of cargo to lbs of fuel. If the space ship is carrying 60 lbs of cargo, how many lbs of fuel do they need to maximize efficiency?

☐ lbs of fuel

Show your work

#8

Choose the best answer

To monitor the deer population, park rangers marked 208 deer. A month later they flew over the park and noted 225 deer. Of the deer they saw 200 were marked. To the nearest whole number, what is the best estimate for the deer population?

○ 271　　　○ 234

○ 189　　　○ 259

Show your work

#9

Choose the best answer

Grace has built a model of his future house. The model walls are 156 cm tall and the roof is 117 cm tall. If Grace knows she wants the roof on her real house to be 129 feet tall, then how high does Grace need to make the walls?

○ 209　　　○ 213

○ 172　　　○ 183

Show your work

#10

Choose the best answer

Darren has built a model of his future house. The model walls are 136 cm tall and the roof is 68 cm tall. If Darren knows he wants the roof on his real house to be 88 feet tall, then how high does Darren need to make the walls?

○ 227   ○ 219

○ 176   ○ 146   Show your work

#11

Choose the best answer

Aiden's Flower Pollinating business likes to have 200 bees for every 90 flowers that it has to pollinate. If they are called in to pollinate 99 flowers then how many bees should Aiden bring?

○ 226   ○ 260

○ 220   ○ 245   Show your work

#12

Choose the best answer

If Aiden weighs 76 lbs on Planet X which has a mass of 19 CS. What is the best estimate of how much Aiden would weigh on Planet Y if it has a mass of 31 CS.

○ 125   ○ 155

○ 124   ○ 159   Show your work

Question	Answer
#1	245
#2	219
#3	214
#4	218
#5	92
#6	232
#7	240
#8	234
#9	172
#10	176
#11	220
#12	124