

6th – 8th Grade:

Fall Pumpkins

1. The average time for one person to carve a jack-o-lantern is 30 minutes. A team of 6 people are carving pumpkins to decorate the town square. Write an equation to represent the total time (y) needed for 6 people to carve (x) number of pumpkins.

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| Equation | |
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2. The art club is raising money by carving jack-o-lanterns for the city. Each pumpkin cost \$5 to purchase. The city pays \$12 for each completed jack-o-lantern. The art club wants to raise \$250 for new equipment. How many jack-o-lanterns do they need to carve to achieve their goal? Justify your answer.

3. In 2023, 164 million people in the US carved pumpkins leaving 250,000 pumpkins uncarved. In 2025 the number of people carving pumpkins is expected to increase by 3.5%. Unfortunately, the pumpkin harvest has declined by 4%. Based on these facts alone, is there enough pumpkins for people to carve in 2025? Justify your answer.
