5.3 Independent Practice

TEKS 7.6.B, 7.6.A, 7.6.C, 7.6.I

4. Represent Real-World Problems For the same food trailer mentioned in Example 1, explain how to find the experimental probability that the next order is two pieces of chicken with a green salad.

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The school store sells spiral notebooks in four colors and three different sizes. The table shows the sales by size and color for 400 notebooks.

	Red	Green	Blue	Yellow
100 Pages	55	37	26	12
150 Pages	60	44	57	27
200 Pages	23	19	21	19

5. What is the experimental probability that the next customer buys a red notebook with 150 pages?

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6. What is the experimental probability that the next customer buys any red notebook?

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7. Analyze Relationships How many possible combined page count and color choices are possible? How does this number relate to the number of page size choices and to the number of color choices?

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A middle school English teacher polled random students about how many pages of a book they read per week.

	6th	7th	8th
75 Pages	24	18	22
100 Pages	22	32	24
150 Pages	30	53	25

8. Critique Reasoning Jennie says the experimental probability that a 7th grade student reads at least 100 pages per week is $\frac{16}{125}$. What is her error and the correct experimental probability?

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9. Analyze Relationships Based on the data, which group(s) of students should be encouraged to read more? Explain your reasoning.

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