Name _____

Topic 4
© Assessment

1. Some large envelopes are 0.085 cm thick. How thick is a stack of 100 envelopes packed on top of each other?

.085

Ⓐ 0.85 cm Ⓒ 85 cm

Ⓑ 8.5 cm Ⓓ 850 cm

2. Every school day, Dylan rides the school bus 4.79 miles round trip between home and school.

Part A

Estimate the total distance Dylan rode the school bus last month, when there were 21 school days. Write an equation to model your work.

4.79 → 5 5 × 20 = 100
21 → 20 about 100 miles

reasonable

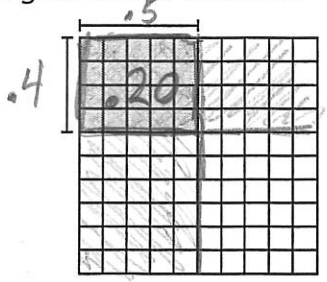
Part B

Find the actual total distance Dylan rode the bus last month.

100.59 miles

(2)
1 1
4.79
× 21
479
9580
100.59

3. Caden colored in the decimal grid shown below. Which expression shows the area of the grid Caden colored?



Ⓐ 0.04 × 0.05 Ⓒ 0.4 × 0.5

Ⓑ 0.04 × 0.5 Ⓓ 0.4 × 0.05

$\frac{4}{10}$ of $\frac{5}{10}$ = $\frac{20}{100}$

4. Match each expression on the left with its product on the right.

6 × 5 tenths = 30 tenths

6 × 0.5 → 30

tenths × tenths = hundredths

0.6 × 0.5 → 0.3 = .30

300 tenths

60 × 0.5 → 0.03

0.06 × 0.5 → 3 = 30 tenths

3 decimal places
.030

5. Ava bought 5.8 pounds of tomatoes at a farmer's market. The price of the tomatoes was $1.30 per pound.

Part A

What are the partial products of 5.8 × 1.30? Show your work.

	1	.3
5	5 × 1 = 5	5 × .3 = 1.5
.8	.8 × 1 = .8	.8 × .3 = .24

1
5.00
1.50
.80
.24
7.54

Part B

How much did Ava spend in all?

$7.54

6. Choose all the expressions that are equal to 0.48 × 0.3.

☐ $\frac{48}{100} \times \frac{3}{100}$

☑ $\frac{3}{10} \times \frac{48}{100}$

.30 = .3

☑ $\frac{48}{100} \times \frac{30}{100}$

$\frac{30}{100} = \frac{3}{10}$

☐ $\frac{3}{100} \times \frac{48}{100}$

☑ $\frac{48}{100} \times \frac{3}{10}$

2.54

14. One inch equals 2.54 centimeters. How many centimeters is 10 inches?

25.4 cm

15. A bowling alley charges $185 per hour for parties. How much would a 2.5-hour party cost?

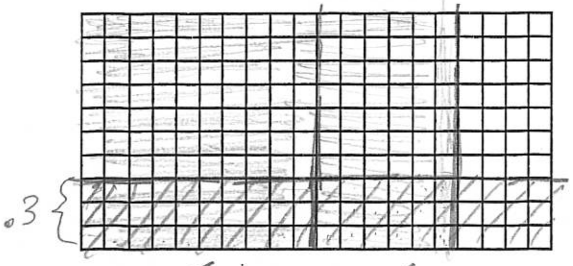
$462.50

185 × 2.5 = 925 + 3700 = 462.5

16. A forest preserve has an area of 1.6 square miles, and 0.3 of the forest preserve is open for hiking.

Part A

Shade the grid to model the multiplication.



.3
.18
.48

Part B

How many square miles are open for hiking? Show your work.

.48

Part C

How does the model help you to find the product?

It shows what 3/10 of 1.6 looks like. It's on a fraction of it.

21. Sara is buying party supplies.

Paddle Ball	$0.89
Balloon	$2.99
Banner	$4.99

Part A

How much will 5 balloons cost? Write an equation.

$14.95

2.99 × 5 = 14.95

Part B

Sara wants to buy 15 paddle balls. She uses partial products to find her total. She says, "$25.50 is much more than my estimate of 15 × $1 = $15, so my estimate is too low." Do you agree? Explain.

15 Paddle balls @ $0.89 each
10 × 0.9 = 9
10 × 0.8 = 8
5 × 0.9 = 4.5
5 × 0.8 = 4
$9 + $8 + $4.50 + $4 = $25.50

10 × .09 = .9
5 × .09 = 0.45
9.0 + 4.0 = $14.35

Her estimate is correct — her actual amount is wrong. She used .9 instead of .09 so two of the partial products are too big. Correct actual $14.35

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