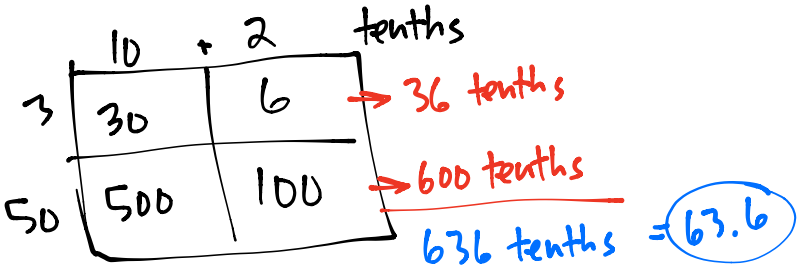
Name _____ Date _____

1. Estimate the product. Solve using an area model and the standard algorithm. Remember to express your products in standard form.

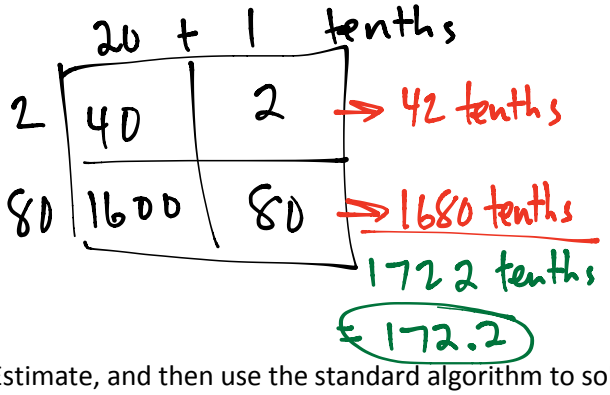
a. $53 \times 1.2 \approx \underline{50} \times \underline{1} = \underline{50}$



1 2 (tenths)

× 5 3
3 6
+ 6 0 0
6 3 6 tenths = 63.6

b. $2.1 \times 82 \approx \underline{2} \times \underline{80} = \underline{160}$



2 1 (tenths)

× 8 2
4 2
+ 1 6 8 0
1 7 2 2 tenths = 172.2

2. Estimate, and then use the standard algorithm to solve. Express your products in standard form.

a. $4.2 \times 34 \approx \underline{4} \times \underline{30} = \underline{120}$

4 2 (tenths)

× 3 4
1 6 8
+ 1 2 6 0
1 4 2 8 tenths
= 142.8

b. $65 \times 5.8 \approx \underline{70} \times \underline{6} = \underline{420}$

5 8 (tenths)

× 6 5
2 9 0
+ 3 4 8 0
3 7 7 0 tenths
= 377

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c. 3.3 × 16

3.3 ×10→ 33
× 16 × 16
198
330
528 ÷10→ 52.8

d. 15.6 × 17

15.6 ×10→ 156
× 17 × 17
1092
+1560
2652 ÷10→ 265.2

e. 73 × 2.4

73 73
×2.4 ×10→ ×24
292
1460
1752 ÷10→ 175.2

f. 193.5 × 57

193.5 ×10→ 1935
× 57 × 57
13545
+96750
110295 ÷10→ 11029.5

3. Mr. Jansen is building an ice rink in his backyard that will measure 8.4 meters by 22 meters. What is the area of the rink?

8.4 ×10→ 84
× 22 × 22
168
1680
1848 ÷10→ 184.8

184.8 sq. m.

4. Rachel runs 3.2 miles each week day and 1.5 miles each day of the weekend. How many miles will she have run in 6 weeks?

3.2 ×10→ 32
× 30 × 30
960 ÷10→ 96

1.5 ×10→ 15
× 12 × 12
30
+150
180 ÷10→ 18

96 + 18 = 114 miles

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