

Multistep Multiplication Number Stories

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NAME

DATE

TIME

Write estimates and number models for each problem. Then solve.



- ① Rosalie is collecting stickers for a scrapbook. She collected 8 stickers per day for 2 weeks and then collected 5 stickers per day for 2 weeks. How many stickers has Rosalie collected?

Estimate: Sample answer: $(10 * 7) * 2 = 140;$
 $(5 * 7) * 2 = 70; 140 + 70 = 210$ stickers

Number models with unknowns:

Sample answer: $(8 * 7) * 2 = x;$

$(5 * 7) * 2 = y; 112 + 70 = s$

Answer: 182 stickers

- ② Rashaad's sister gives him 2 packs of baseball cards per month. Each pack has 11 cards. She gives him 3 extra packs for his birthday. How many cards does Rashaad get in a year?

Estimate: Sample answer: $2 * 10 * 12 = 240;$
 $3 * 10 = 30; 240 + 30 = 270$ cards

Number models with unknowns:

Sample answer: $(2 * 11) * 12 = a;$

$3 * 11 = b; 264 + 33 = c$

Answer: 297 cards

Does your answer make sense? Explain. Sample answer: Yes. My estimate is less than my answer because I rounded down from 11 cards to 10.

Practice

Name all the factor pairs.

- ③ 50 1 and 50, 2 and 25, 5 and 10
- ④ 72 1 and 72, 2 and 36, 3 and 24, 4 and 18, 6 and 12, 8 and 9
- ⑤ 85 1 and 85, 5 and 17
- ⑥ 90 1 and 90, 2 and 45, 3 and 30, 5 and 18, 6 and 15, 9 and 10
- 4.OA.3, 4.OA.4, 4.NBT.3, 4.NBT.4, 4.NBT.5, SMP1, SMP6