Name _____

Topic **6**
Assessment

1. Jessica and her 2 sisters want to take a camping trip. They have $225 saved. Each of them will save $21 a week until they have at least $512 to pay for the trip. How much money will they save after 4 weeks? Will they have enough money to pay for the trip?

A. What are the hidden questions? **1 point**

How much more money do they need to save to pay for the trip? How much money will they save each week?

B. Write an equation that can be used to answer each hidden question. Then solve. **2 points**

Sample answer:
$512 − $225 = *t*,
***t* = $287; 3 × $21 = *s*,**
***s* = $63**

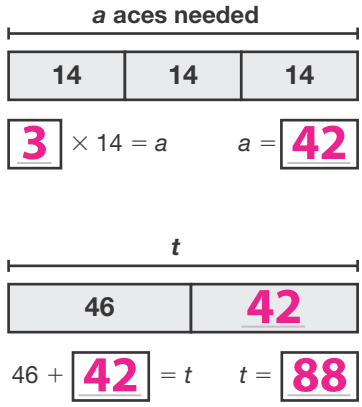
C. Write and solve an equation to find how much money they will save after 4 weeks. Will they have enough to pay for the trip? Explain. **3 points**

No; $63 × 4 = $252; $287 − $252 = $35 short

2. Bree sold 2 paintings for $95 each, 5 stone sculptures for $64 each, and 1 mini-bronze sculpture for $150 in the month of April. Bree doubled her sales in May. How much were her total sales in April and May? **1 point**

$1,980

3. Ellie wants to beat the record for the most aces served in a tennis season. This season, she has served 46 aces. If she serves 14 aces at each match in the next 3 matches, she will break the record by 1 ace serve. How many total aces will she need to serve to break the record by 1 ace? **2 points**



Ellie will break the record by 1 ace if she serves a total of **88** aces.

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4. Select all the sentences that describe a comparison using multiplication. **1 point**

- [ ] 25 is 5 more than *b*.
- [x] 64 is 8 times as many as *w*.
- [x] An ant can carry 50 times its own weight.
- [x] There are 7 times as many balls as bats.
- [ ] Each adult ticket costs $5 more than a student ticket.

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5. Choose the correct phrase from the box to complete each statement. **1 point**

times as many as	more than

100 is 52 **more than** 48.

88 is 8 **times as many as** 11.

63 is 9 **times as many as** 7.

72 is 12 **more than** 60.

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6. Mandi had $260 to spend at the jewelry expo. She already spent $125 and then bought 3 bracelets for $27 each. How much money does Mandi have left? Select each correct equation or set of equations that could be used to solve the question. **1 point**

- [x] $\$260 - \$125 = M; M - (3 \times \$27)$
- [x] $\$260 - \$125 - (3 \times \$27) = M$
- [ ] $(3 \times \$27) - \$125 - \$270 = M$
- [x] $(\$260 - \$125) - (3 \times \$27) = M$
- [ ] $\$260 + \$125 - (3 \times \$27) = M$

7. Bill ordered 5 boxes of blue markers and 6 boxes of red markers for the school's art department. He ordered a total of 66 markers. How many markers are in each box? **1 point**

Ⓐ 5

Ⓑ 2

Ⓒ 6

Ⓓ 7

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8. Select all of the sentences which are true for the number 8. **1 point**

- [ ] $14 \times$ _____ $= 122$
- [x] _____ times as many as 30 is 240.
- [ ] 360 is the product of _____ times 40.
- [ ] 534 is the product of _____ times 40.
- [x] $16 \times$ _____ $= 128$

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9. Select all the expressions that are equal to the product of 15 and 7. **1 point**

- [x] $7 \times (7 + 8)$
- [ ] 7 more than 15
- [x] 7×15
- [ ] $7 + (5 + 10)$
- [ ] (5×10) more than 7

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10. Sabrina jogged 54 laps around the football field. Harry ran 9 laps. How many times as many laps did Sabrina run than Harry? **1 point**

Ⓐ 3 times

Ⓑ 6 times

Ⓒ 8 times

Ⓓ 9 times

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