Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

T1

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using *n* for the number of jerseys ordered, and *c* for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $21.5n = c$ ✓   1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using *n* to stand for the number of jerseys ordered, and *c* for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $70 + 18n = c$ 2
   ✓

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $35   ✓   1

   $30 \times 18 = 540 + 70 = 610 \leftarrow$ Top Print
   $21.5 \times 30 = 645 \leftarrow$ Print It ✓   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.   21 jerseys ✓   2

   I used guess and check. Using my calculator and the equations above, I found out buying 20 jerseys equals the prices to $430. I added 1 more jersey, and Top Print was $448 and Print It was $451.50. 21 jerseys was definetly when Top Print was cheaper. ✓   1

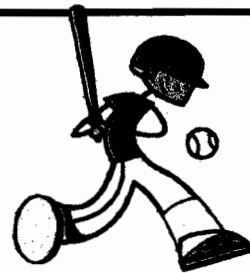   Baseball Jerseys
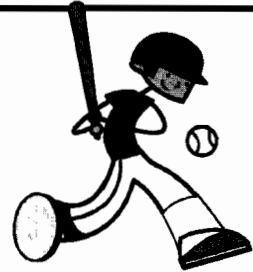
⑨

Baseball Jerseys

T2

This problem gives you the chance to:
• work with equations that represent real life situations

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $21.50N = C$ ✓ 1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $70 + 18N = C$ ✓ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. _____ $610 _____ ✗   0

   $70 + 18 \times 30 =$
   $70 + 540 = 610$ ✓

   $\begin{array}{r} 18 \\ \times 30 \\ \hline 00 \\ 540 \\ \hline 540 \end{array}$

   0

   0
   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out. _____ 20 _____   (1)

   He would have to buy 20 jerseys because
   it would take 20 to get the 20 dollar
   set up cost gone. Then it would be
   3.50 dollars cheaper.

   0

   9 ⑤

Baseball Jerseys
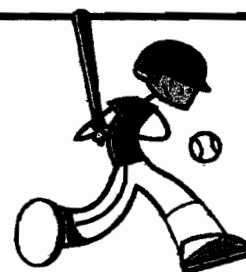
Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $c = 21.5n$ ✓ | 1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $c = 70 + 18n$ ✓ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $30 more   X   0

   $70 + 18(30)$ $21.5 \cdot 30 = 645$ 1
   $70 + 540$ 645
   610 ✓ $\frac{-610}{30}$ 1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out. $1-10$ jerseys λ 0

$70 + 18(1) = 88$	$70 + 18(2) = 106$	$70 + 18(10) = 250$	X
$21.5 \cdot 1 = 21.60$	$21.5 \cdot 2 = 43$	$21.5 \cdot 3 = 64.5$	$21.5 \cdot 10 = 250$

   0

   (5)

Baseball Jerseys
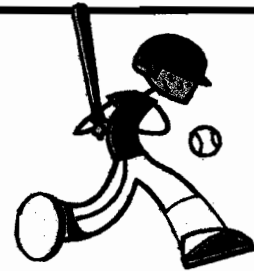
Baseball Jerseys

T4

This problem gives you the chance to:
• work with equations that represent real life situations

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

    Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

    $$21.5n = c$$

    $\underline{21.5n = c}$ 1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

    Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

    $\underline{70 + 18n = c}$ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
    How much more would the jerseys cost if he buys them from 'Print It'?
    Show all your calculations. $\underline{\$35}$ ✓

    $70 + 18(30) = 610$

    $21.5(30) = 645$

    $$\begin{array}{r} 645 \\ -\ 610 \\ \hline 35 \end{array}$$

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
    Explain how you figured it out. $\underline{21 \text{ jersey}}$ ✓ 2

    I would use guess and check

    0

    $\Lambda\Lambda$

Baseball Jerseys
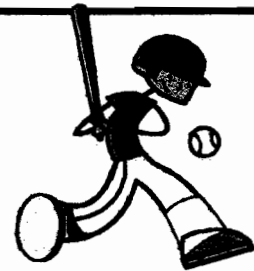
9   ⑧

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

T5

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $$\$21.50n = c$$ ✓   1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $$\$70 + \$18n = c$$ ✓   2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $\$35$ more   ✓   1

   $$\begin{array}{r} 18 \\ \times\ 30 \\ \hline 540 \\ +\ 70 \\ \hline \$610 \end{array}\ \text{Top Print}$$ ✓

   $$\begin{array}{r} 21.50 \\ \times\ 30 \\ \hline \$645 \end{array}$$
   Print It

   $$\begin{array}{r} 645 \\ -\ 610 \\ \hline 35 \end{array}$$ 1

   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.   20   (1)

   I started from 1 & plugged it in both equations in place of variable "n" & then continued until "Top Print" & "Print It" had equal or more prices.   0

   (7)

   9

Baseball Jerseys

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S1

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using *n* for the number of jerseys ordered, and *c* for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   _____ $21.50n = c$ _____ 1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using *n* to stand for the number of jerseys ordered, and *c* for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   _____ $70 + 18n = c$ _____ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. _____ $35 _____

   $$\begin{array}{r} 18 \\ \times 30 \\ \hline 540 \\ + 70 \\ \hline 610 \end{array} \qquad \begin{array}{r} 21.50 \\ \times \ 30 \\ \hline 645 \end{array} \qquad \begin{array}{r} 645 \\ -610 \\ \hline 35 \end{array}$$

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.

   _____ 21 JERSEYS _____ 2

   PRINT H ✓   —   TOP PRINT ✓

   $21.50(21) = \$451.50$ while $70 + 18(21) = \$448$

Baseball Jerseys
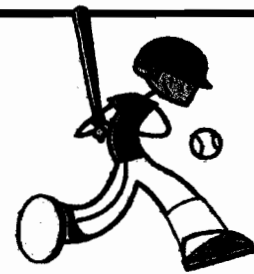
⑨

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S2

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   ~~21.50n~~

   $21.50n = c$ ✓ **1**

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $18n + 70 = c$ ✓ **2**

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $35 more

   1

   Top Print $\begin{cases} 18(30) + 70 \\ = 540 + 70 \\ = 610 \checkmark \end{cases}$ Print it $\begin{cases} 21.50(30) \\ = 645 \checkmark \end{cases}$ $645 - 610 = 35$

   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.   more than 20 jerseys ✓ **2**

   $\begin{array}{ll} 21.50n < 18n + 70 & 3.5n < 70 \qquad n < 20 \\ -18n \qquad -18n & \dfrac{3.5}{3.5} \quad \dfrac{3.5}{3.5} \\ 3.5n < 70 & n < 20 \end{array}$

   1

Baseball Jerseys
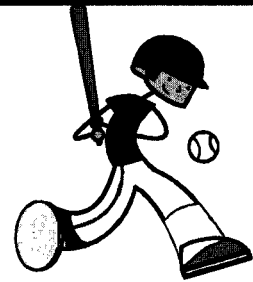
9

⑨

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S3

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $21.50 * n = c$ ✓ 1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $(18 * n) + 70 = c$ ✓ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations.

   $2 1.50$

   $3 0$

   $6 4 5 0 0$

   $6 4 5.0 0$ ✓

   645.00 X   0

   1

   0

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.

   20 jerseys (1)

   around 20 Jerseys

   I estimated 3 times and used the expressions from 1 and 2.

   0

   0

   ^

   9 (5)

Baseball Jerseys

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S4

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

    Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

    309

    107.5

    $21.50n = c$ ✓   1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

    Z^{S8}

    Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

    $18n + 70 = c$ ✓   2

    3225
    $3902 15.0$ 20

3. Bill decides to order 30 jerseys from 'Top Print'.
    How much more would the jerseys cost if he buys them from 'Print It'?
    Show all your calculations. $\$35.00$ ✓   1

    451.50 $30 \times 21.50 = 645$ ✓   1

    $30 \times 18 + 70 = \dfrac{-610}{\$35.00}$ ✓   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
    Explain how you figured it out. 20 ✓   (1)

    I added them unkill I found
    at he diffrence ~~till~~ I kept
    on multiplying tho numbers ✓✓   0

Baseball Jerseys

9

⑦

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S5

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $21.5n = c$ ✓ **1**

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $70 + 18n = c$ **2**

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?   ✓   **1**
   Show all your calculations. $35

   $21.5n = c$ $70 + 18n = c$ $645 - 610 = 35$

   $21.5 \times 30 = c$ $70 + 18 \times 30 = c$

   $645 = c$ ✓ $70 + 540 = c$

   Print it $610 = c$ ✓   **1**

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out. 5 jerseys × O

   $21.5n = c = 21.5 \cdot 5 = c, 107.5 = c ; 70 + 18n = c, 70 + 18 \cdot 5 = c,$

   $70 + 90 = c, c = 150$ A A   × O

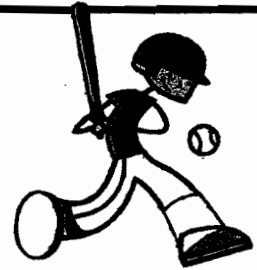Baseball Jerseys
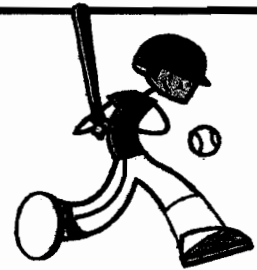
6

9

Baseball Jerseys

S6

This problem gives you the chance to:
• work with equations that represent real life situations

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using *n* for the number of jerseys ordered, and *c* for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $21.50n = c$ /   1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using *n* to stand for the number of jerseys ordered, and *c* for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $70 + 18n = c$ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $35 More ✓   /

   $18 \times 30 + 70 = 610$ ✓ $645 - 610$ 1

   $21.50 \times 30 = 645$ ✓   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out. 21 / because 2

   if you buy 20 jersey, they cost the same,
   430, So you need to buy 21 of them. ✓   1

Baseball Jerseys
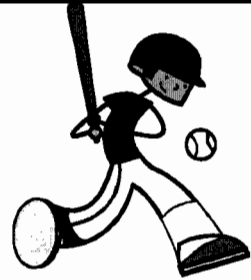
9   ⑨

Baseball Jerseys

S7

This problem gives you the chance to:
• work with equations that represent real life situations

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $(n)(21.50) = c$ ✓

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $(n)(18) = c + 70$ ○

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations.

   35 ✓

   $(30)(21.50) = 645$
   -610
   $\overline{35}$ ✓
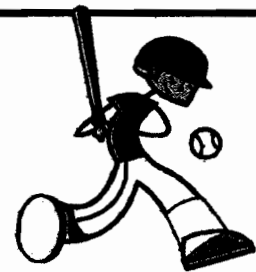
   $(30)(18) = 540 + 70$
   610 ✓

   1

   1

   1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.

   ○

   ○

9 (4)

Baseball Jerseys

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S8

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $$\$21.50n = c \quad \checkmark$$ /   1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $$70 + 18n = c \quad /$$ 2

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $\$35$

   $$70 + 18(30) = \$610$$
   $$21.50(30) = \$645$$

   Print It $645\frac{1}{2}$ 1
   Top Print 420 1
   21 250 1

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out. 10 jerseys X 0

   because of guess and check

   0

9   ⑥

Baseball Jerseys

Baseball Jerseys

This problem gives you the chance to:
• work with equations that represent real life situations

S9

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $$\$21.50n = c \qquad \checkmark \quad 1$$

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $$\$70 + \$18n = c \qquad \checkmark \quad 2$$

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $\underline{\quad \$35 \quad}$

   $$21.50 \times 30 = \$645$$
   $$18 \times 30 = \$540 + 70 \quad /$$
   $$\$610$$
   $$\$645 - \$610 \, \$35 \quad /$$

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out. $\underline{\quad 20 \text{ jerseys} \quad} \quad (1)$

   $$\$21.5n > \$70 + \$18n$$
   $$-18 \qquad\qquad -18$$
   $$\frac{\$3.5n}{3.5} > \frac{\$70}{3.5}$$
   $$n = 20 \quad \checkmark$$

_

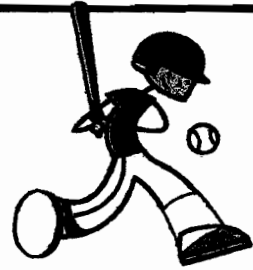Baseball Jerseys

9

8

Baseball Jerseys

S10

This problem gives you the chance to:
• work with equations that represent real life situations

Bill is going to order new jerseys for his baseball team.

The jerseys will have the team logo printed on the front.

Bill asks two local companies to give him a price.

1. 'Print It' will charge $21.50 each for the jerseys.

   Using n for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Print It'.

   $n = 21.5c$ $c = 21.5n$ ✓ 1

2. 'Top Print' has a one-time setting up cost of $70 and then charges $18 for each jersey.

   Using n to stand for the number of jerseys ordered, and c for the total cost in dollars, write an equation to show the total cost of jerseys from 'Top Print'.

   $c = 70 + 18n$ 2
   ✓

3. Bill decides to order 30 jerseys from 'Top Print'.
   How much more would the jerseys cost if he buys them from 'Print It'?
   Show all your calculations. $35 ✓

   $C = 70 + 18(30)$ ✓ $C = 21.5n$
   $C = 880$ $C = 645$ ✓

4. Use the two equations from questions 1 and 2 to figure out how many jerseys Bill would need to buy for the price from 'Top Print' to be less than from 'Print It'.
   Explain how you figured it out.   # of Jerseys < 20 0

   $C = 21.5(20) = 430$
   $C = 70 + 18(20) = 430$ 0

   ⑥

Baseball Jerseys

9