#### **Baseball Jerseys**

Bill wants to order new jerseys for his baseball team.

He sees the following advertisements for two printing companies, 'PRINT IT' and 'TOP PRINT'.

Bill doesn't know which company to choose.







Get your baseball jerseys printed with your own team names here.

Only \$21 per jersey.

#### **TOP PRINT**



We will print your baseball jerseys - just supply us with your design.

Pay a one-off setting up cost of \$45; we will then print each jersey for only \$18!

Give Bill some advice on which company he should buy from. When should he choose 'PRINT IT'?
When should he choose 'TOP PRINT'? Explain your answer fully.

Remember, back up your statement with figures that confirm your reasoning.

A third company called 'VALUE PRINTING' wants to start trading.

It wants its prices to be between those of 'PRINT IT' and 'TOP PRINT'.

This company never wants to be the most expensive and never wants to be the cheapest.

Show and/or explain how you dtermine the jersey costs for your poster.

Can you complete this poster for the new company?



•		

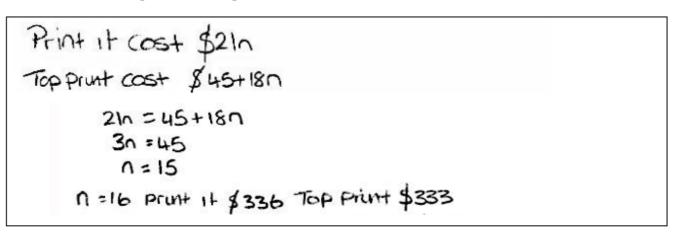
Bill's friends Danny, Jeremiah, Bella and Tanya want to help him decide on the best deal for the baseball jerseys. They each give Bill their choice for which company to use and why. Analyze each of their decisions as well as eac reasoning process.

## Sample Responses to Discuss: Danny

5 \$105 \$135 10 \$210 \$245 15 \$315 \$315 6 20 \$430 \$405	Number of Jerseys	Costat 'Print it'	Cost at Top Print
16 \$336 \$333	15	\$210	\$ 245 \$ 315 <del>(</del>

What mistakes have Danny made? Describe the mistakes and then make corrections.			
In what ways would Danny's mistakes affect his advice to Bill?			
,			
Why has Danny calculated the cost of 16 jerseys?			
How could Danny's work be improved?			

### Sample Responses to Discuss: Jeremiah



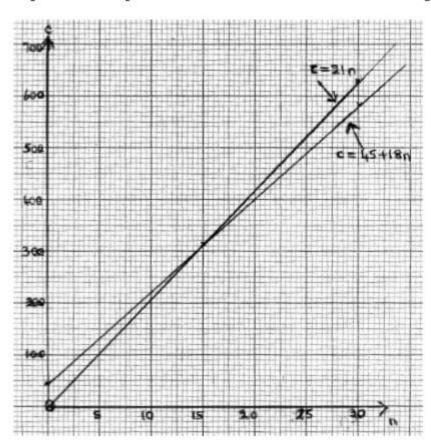
Where does Jeremiah get the equation $21n = 45 + 18n$ from?		
Is Jeremiah's solution complete?		
In what ways could Jeremiah's work be improved?		
To help you to understand Jeremiah's work, what question(s) could you ask him?		

### Sample Responses to Discuss: Bella

He would have to buy 15 Jerseys to get the \$45 set up cost gone. Then Top Print \$3 cheaper.

Is Bella's reasoning correct? Explain your answer.			
W/(			
What does Bella mean by '\$3 cheaper'?			
In what ways could Bella's work be improved?			
To help you to understand Bella's work, what question(s) could you ask her?			

# Sample Responses to Discuss: Tanya



What is not clear about Tanya's work?

In what ways could Tanya's work be improved?

To help you to understand Tanya's work, what question(s) could you ask her?