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# PHOTO PRINTING

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## Question 1: PHOTO PRINTING

CM030Q01 – 0 1 9

From the information on the website, is *Foto 2000* the cheapest for printing one photo of each format? Explain your answer.

### SCORING

#### QUESTION INTENT

Description: Compare decimal numbers

Mathematical content area: Quantity

Context: Personal

Process: Interpret

#### **Correct**

An answer that states that for every format, *Foto 2000* prices are cheaper than or equal to the other shops' prices:

- Yes, because their prices are the cheapest or equal cheapest for every format.
- *Foto 2000* is the cheapest because the total cost would only be 12.58 zeds while all the others cost more
- Yes, because none of the other shops are cheaper for any format.
- They are cheaper or the same price for each format plus they have a 10% discount too.

#### **Incorrect**

Other responses.

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**Question 2: PHOTO PRINTING**

CM030Q02 – 01 9

Steve says that for *Printz Zone*, the 20"x30" format costs approximately 30 times more than the 4"x6" format when you only want one photo printed.

He's wrong. Why?

**SCORING****QUESTION INTENT**

Description: Analyse data from a table using decimal multiplication or division

Mathematical content area: Quantity

Context: Personal

Process: Interpret

**Correct**

An answer that shows an understanding that it is significantly more than 30 times more expensive, and that refers to multiplication and not addition. [*"30 zeds more" implies addition and is not a correct answer*]. For example:

- Because 29.55 is approximately 300 times more than 0.09 not 30 times more
- Because 29.55 divided by 0.09 equals approximately 300, not 30.
- It is approximately 330 times more.

**Incorrect**

Other responses.

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**Question 3: PHOTO PRINTING**

CM030Q03

*Foto 2000* gives a discount for large orders, as shown by clicking on the shop name in the table. It also has a sale this month offering a further 10% discount.

How much will Steve actually pay for 100 photos in 4"x6" format from *Foto 2000*, not including the delivery charge?

Answer: ..... zeds

**SCORING**

## QUESTION INTENT

Description: Extract price data from a table and calculate the price of a purchase

Mathematical content area: Quantity

Context: Personal

Process: Employ

**Correct**

4.5 or 4.50

**Incorrect**

Other responses.

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**Question 4: PHOTO PRINTING**

CM030Q04 – 0 1 9

The customer satisfaction index for *Best photo* is very high, but its value might be less reliable than it is for the other three shops.

Explain why.

**SCORING****QUESTION INTENT**

Description: Develop an argument about the reliability of data

Mathematical content area: Quantity

Context: Personal

Process: Interpret

**Correct**

Response that points out the small number of customers who answered the satisfaction question for *Best photo*, compared with the other shops. For example:

- Only 4 customers answered their survey which is a lot less than the other places
- Only 4 customers answered their survey
- You'd need more customers to use Best Photo before you could be sure they were really that good.
- No one uses them very much compared to the other shops
- 4 customers only replied to the survey while there were 132 customers for Clic shop, 153 customers for Foto 2000, 76 customers for Printz Zone.

**Incorrect**

Other responses.