Names (group) _____ Date _____

Which Deal Is Better?

Situation

A gym offers three monthly deals:
A: a 20 € joining fee and 5 € per visit **B:** 8 € per visit **C:** 45 € a month, unlimited.
Which deal should you recommend? It depends on the number of visits x.

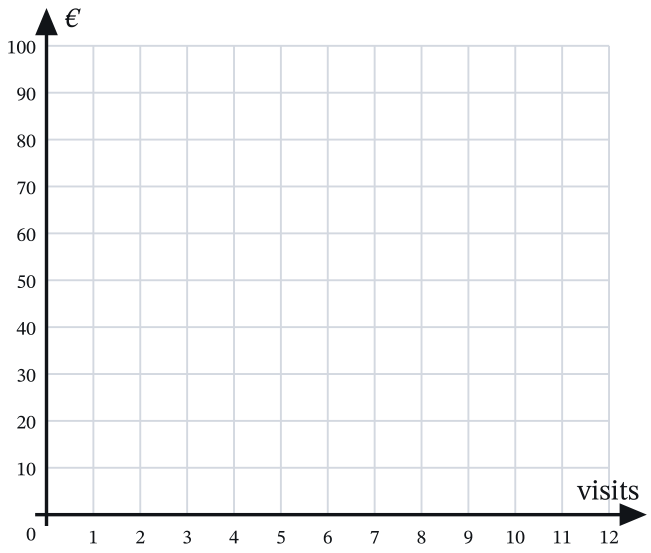
1 IN A GROUP Complete the table of prices.

visits x	0	2	4	6	8	10
A						
B						
C						

2 IN A GROUP Write the equations.

$A(x) =$ _____ $B(x) =$ _____ $C(x) =$ _____

3 IN A GROUP Draw all three graphs on the same axes (in different colours).



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4 IN A GROUP When do A and B cost the same? Solve the equation and mark the intersection on the graph.

$\square \rightarrow x = \square$

5 IN A GROUP Complete: the best deal is...

B for ☐

A for ☐

C for ☐

6 IN A GROUP Ana goes twice a week (about 8 times a month). Which deal do you recommend? Explain.

7 IN A GROUP Bake sale: the costs are 30 € plus 0.50 € per cake, and you sell each cake for 2 €. From how many cakes do you make a profit?

cost $T(x) =$ ☐ income $P(x) =$ ☐ $x >$ ☐

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Type $A(x)$, $B(x)$ and $C(x)$ and find the intersections.

★ ON YOUR OWN **Exit card.** Present your recommendation to the class. Deal A is cheaper than B when the number of visits is more than ☐.