Compare plans: phones, gyms and rentals worksheet – Grade 8

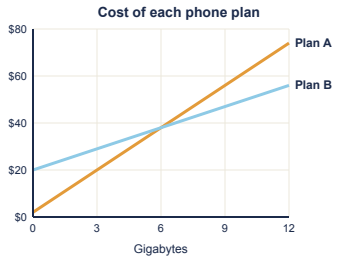
Grade 8 · Mixed level · 20 questions · **Version X7806**

Name: _____ Date: _____ Score: ___ / 20

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1. What is the fixed fee for Plan B, shown where its line meets the cost axis, in dollars?



Answer: $_____

2. On a plan with no fixed fee, visits cost $3 each. What is the total for 3, in dollars?

Answer: $_____

3. Plan A costs $4 plus $5 per visit. Plan B costs $22 plus $2 per visit. Which rule gives the cost C of Plan A for x visits?

A. C = 5 + 4x **B.** C = 9x **C.** C = 4x – 5 **D.** C = 4 + 5x

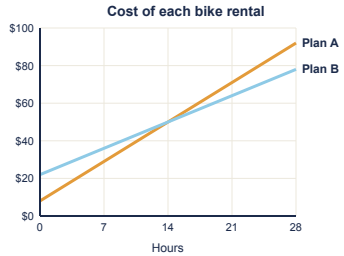
4. On a plan with no fixed fee, GB of data cost $5 each. What is the total for 20, in dollars?

Answer: $_____

5. On a plan with no fixed fee, movies cost $5 each. What is the total for 8, in dollars?

Answer: $_____

6. Work out the fixed fee for Plan B, shown where its line meets the cost axis, in dollars.



Answer: $_____

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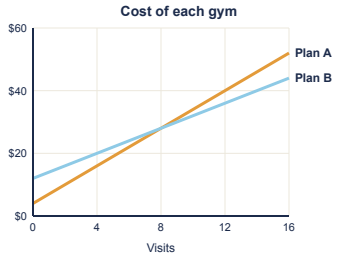
7. Plan A costs $\$6$ plus $\$6$ per hour. Plan B costs $\$24$ plus $\$3$ per hour. Which plan is cheaper if you use none at all?

   A. Plan B **B.** They cost the same **C.** Plan A

8. Plan A costs $\$6$ plus $\$4$ per hour. Plan B costs $\$38$ plus $\$2$ per hour. What do they both cost at the break-even point, in dollars?

   Answer: $\$$_____

9. Read the graph. For how many visits do the two plans cost the same?

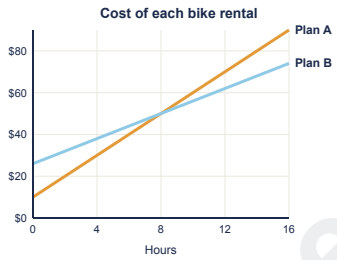


   Answer: _____

10. Plan A costs $\$12$ plus $\$4$ per movie. Plan B costs $\$60$ plus $\$1$ per movie. How much do you save by choosing the cheaper plan for 21 movies, in dollars?

    Answer: $\$$_____

11. Read the graph. For how many hours do the two plans cost the same?

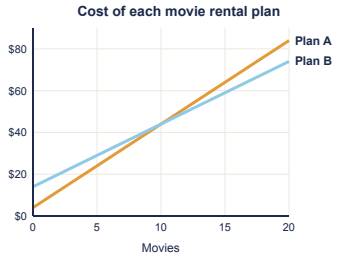


    Answer: _____ hours

12. Plan A costs $\$6$ plus $\$4$ per visit. Plan B costs $\$38$ plus $\$2$ per visit. Which plan is cheaper for 17 visits?

    A. Plan A **B.** Plan B **C.** They cost the same

13. Read the graph. For how many movies do the two plans cost the same?



    Answer: _____

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14. Plan A costs $\$8$ plus $\$3$ per GB. Plan B costs $\$20$ plus $\$1$ per GB. Which plan is cheaper for 4 GB of data?

    A. Plan A **B.** They cost the same **C.** Plan B

15. Plan A costs $\$12$ plus $\$5$ per hour. Plan B costs $\$60$ plus $\$2$ per hour. 10% tax is added to the bill. What does Plan B cost for 21 hours, to the nearest cent?

    A. $\$112.20$ **B.** $\$112.19$ **C.** $\$112.30$ **D.** $\$112.10$

16. Plan A costs $\$8$ plus $\$3$ per hour, with 3 hours free each month. What does 13 hours cost, in dollars?

    Answer: $_____

17. Plan A costs $\$2$ plus $\$4$ per movie. Plan B costs $\$22$ plus $\$2$ per movie. Omar has $\$54$ to spend on Plan B. What is the most movies Omar can use?

    Answer: _____

18. Plan A costs $\$4$ plus $\$5$ per visit. Plan B costs $\$46$ plus $\$2$ per visit. Lucas has $\$78$ to spend on Plan B. What is the most visits Lucas can use?

    Answer: _____

19. Plan A costs $\$6$ plus $\$4$ per movie, with 3 movies free each month. What does 19 movies cost, in dollars?

    Answer: $_____

20. Plan A costs $\$12$ plus $\$2$ per GB, with 3 GB of data free each month. What does 19 GB of data cost, in dollars?

    Answer: $_____

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Answer key · Version X7806

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1. **20**
2. **9**
3. **D (C = 4 + 5x)**
4. **100**
5. **40**
6. **22**
7. **C (Plan A)**
8. **70**
9. **8**
10. **15**
11. **8**
12. **B (Plan B)**
13. **10**
14. **A (Plan A)**
15. **A ($112.20)**
16. **38**
17. **16**
18. **16**
19. **70**
20. **44**

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