Analytic geometry on a map: distance, midpoint and right angles worksheet – Grade 10

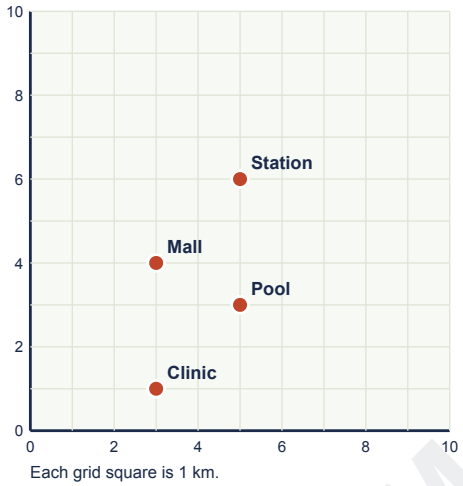
Grade 10 · Mixed level · 20 questions · **Version X2222**

Name: _____ Date: _____ Score: ___ / 20

Scan to check answers + earn stars

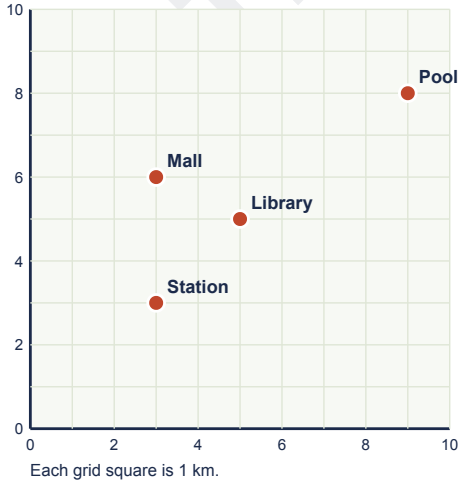
Done the worksheet? Scan the code (or enter version X2222 on this skill's page at themathmeridian.com) to check your answers online and earn stars.

1. How far is it in a straight line from the Clinic to the Mall? (km, to the nearest tenth)



Answer: _____ km

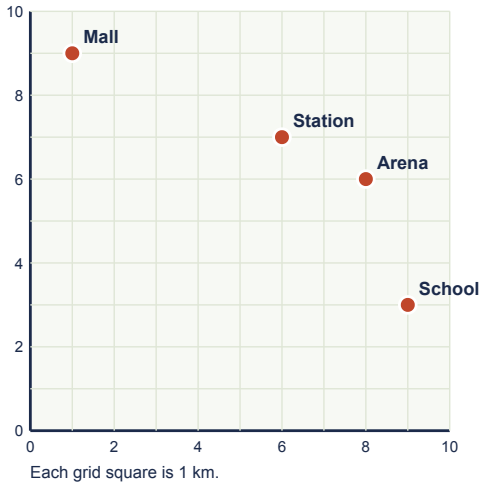
2. Two friends meet halfway between the Mall and the Library. What are the coordinates of the meeting point?



A. (8, 11) **B.** (4, 5.5) **C.** (1, -0.5) **D.** (5.5, 4)

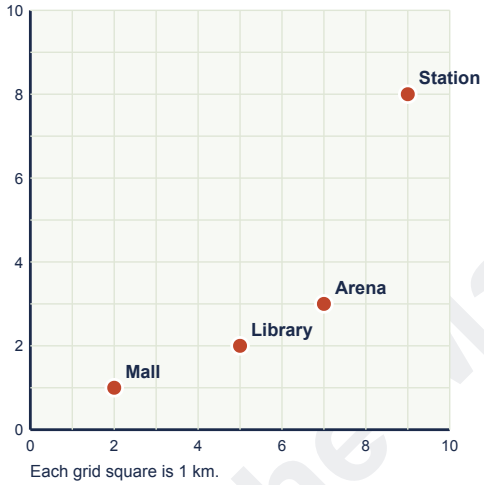
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3. Two friends meet halfway between the Mall and the Arena. What are the coordinates of the meeting point?



A. (7.5, 4.5) **B.** (4.5, 7.5) **C.** (9, 15) **D.** (3.5, -1.5)

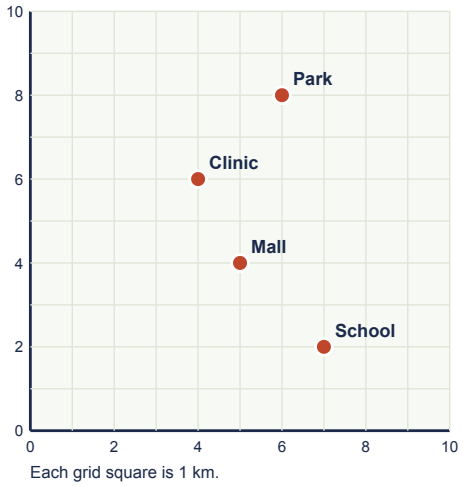
4. How far is it in a straight line from the Library to the Station? (km, to the nearest tenth)



Answer: _____ km

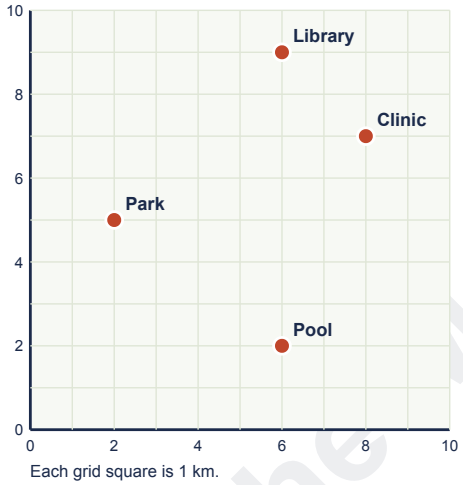
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5. Two friends meet halfway between the Mall and the Clinic. What are the coordinates of the meeting point?



A. (-0.5, 1) **B.** (9, 10) **C.** (4.5, 5) **D.** (5, 4.5)

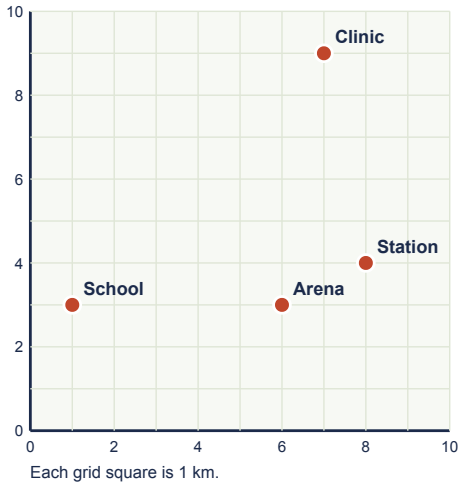
6. How far is it in a straight line from the Clinic to the Library? (km, to the nearest tenth)



Answer: _____ km

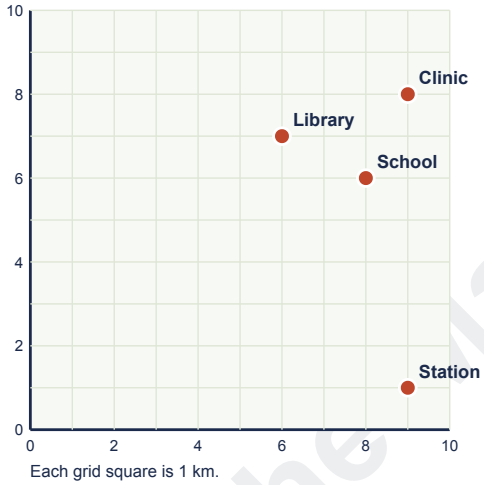
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7. Two friends meet halfway between the School and the Station. What are the coordinates of the meeting point?



A. (3.5, 0.5) **B.** (3.5, 4.5) **C.** (9, 7) **D.** (4.5, 3.5)

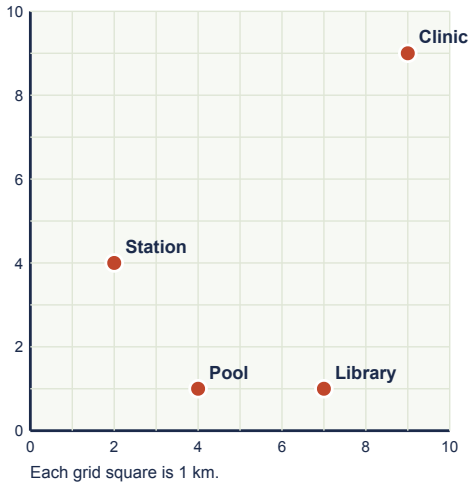
8. Which is closer to the Clinic in a straight line: the School or the Station?



A. The School **B.** The Station

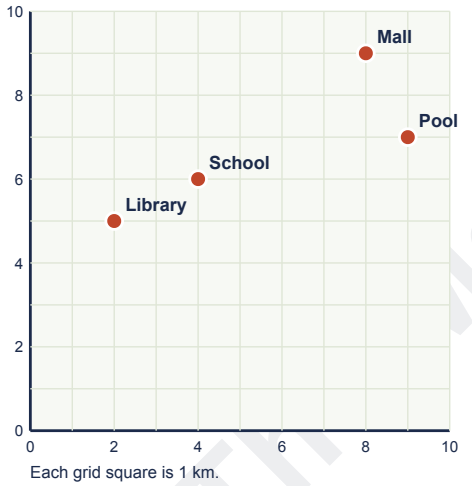
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9. Walking along the grid streets from the Station to the Pool is 5 km. How much shorter is the straight-line path? (km, to the nearest tenth)



Answer: _____ km

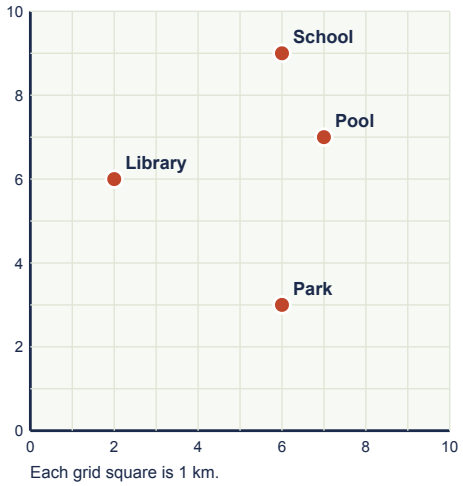
10. A bus stop will be built halfway between the School and the Library. How far will it be from the Pool, in a straight line? (km, to the nearest tenth)



Answer: _____ km

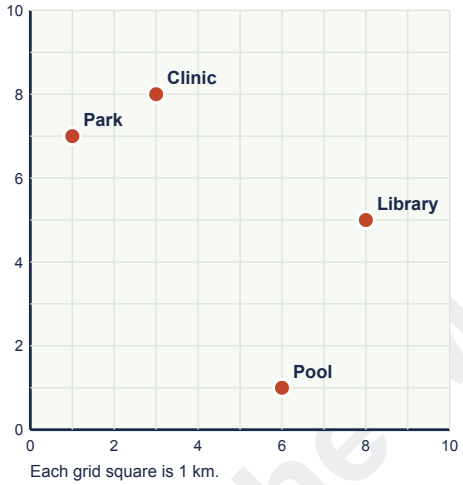
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11. Which is closer to the School in a straight line: the Pool or the Park?



A. The Pool **B.** The Park

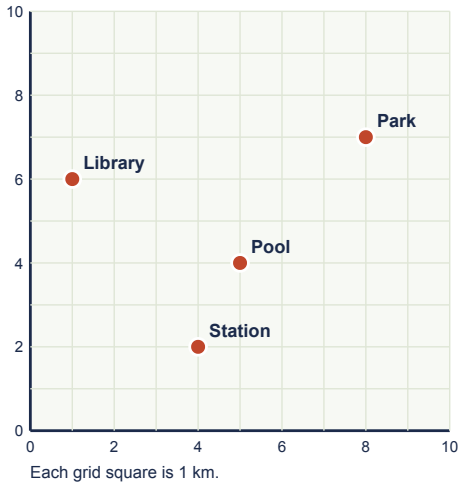
12. Walking along the grid streets from the Park to the Clinic is 3 km. How much shorter is the straight-line path? (km, to the nearest tenth)



Answer: _____ km

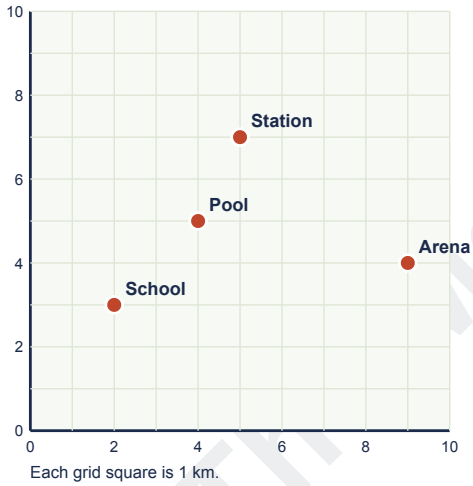
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13. A bus stop will be built halfway between the Park and the Pool. How far will it be from the Station, in a straight line? (km, to the nearest tenth)



Answer: _____ km

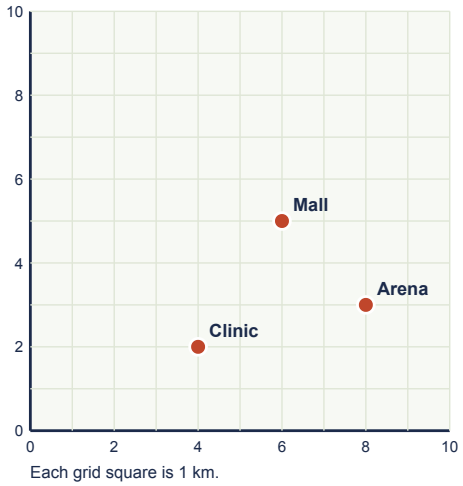
14. Walking along the grid streets from the Station to the Arena is 7 km. How much shorter is the straight-line path? (km, to the nearest tenth)



Answer: _____ km

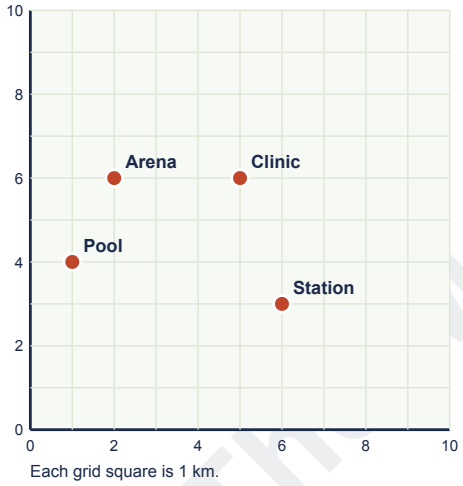
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15. Straight paths join the Clinic, the Arena and the Mall. Do the three paths form a right triangle?



A. Yes **B.** No

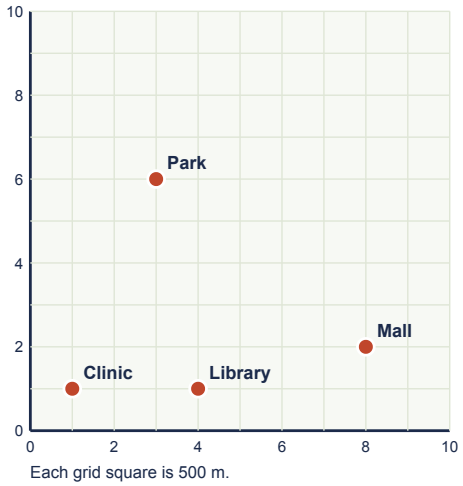
16. A straight road runs from the Clinic to the Station. What is its slope on the map? (Give a fraction or a whole number.)



Answer: _____

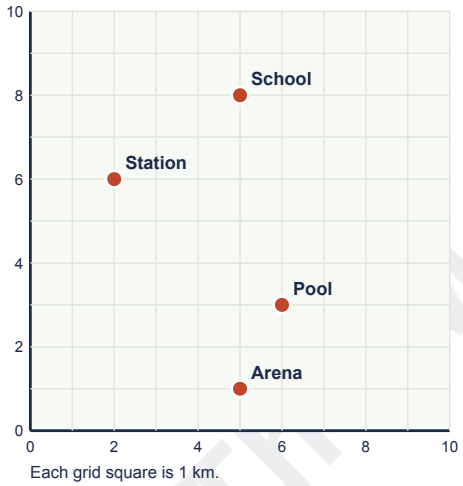
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17. On this map each grid square is 500 m. How far is it in a straight line from the Mall to the Library? (km, to the nearest tenth)



Answer: _____ km

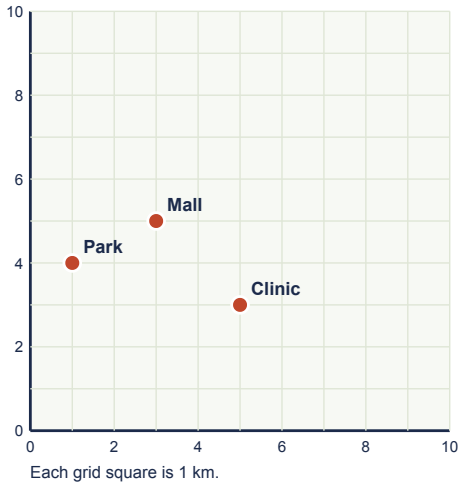
18. A straight road runs from the Station to the School. What is its slope on the map? (Give a fraction or a whole number.)



Answer: _____

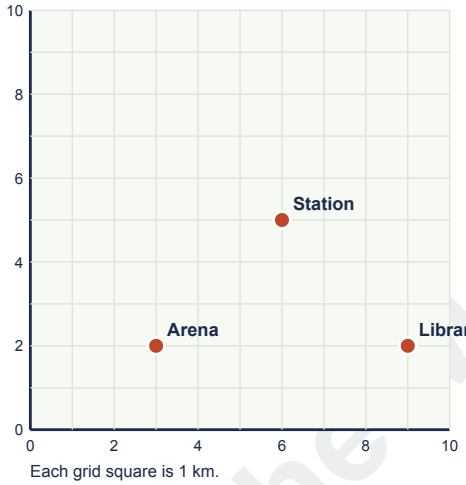
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19. Straight paths join the Park, the Clinic and the Mall. Do the three paths form a right triangle?



A. Yes **B.** No

20. Straight paths join the Arena, the Library and the Station. Do the three paths form a right triangle?



A. Yes **B.** No

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Answer key · Version X2222

Analytic geometry on a map: distance, midpoint and right angles worksheet – Grade 10 · Grade 10 · to reprint this sheet or check the answers, enter X2222 on the skill page.

1. **3**
2. **B ((4, 5.5))**
3. **B ((4.5, 7.5))**
4. **7.2**
5. **C ((4.5, 5))**
6. **2.8**
7. **D ((4.5, 3.5))**
8. **A (The School)**
9. **1.4**
10. **6.2**
11. **A (The Pool)**
12. **0.8**
13. **4.3**
14. **2**
15. **B (No)**
16. **-3**
17. **2.1**
18. **2/3**
19. **B (No)**
20. **A (Yes)**

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