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Algebra / Word problem involving multiple rates

There are 720 dishes that need to be rinsed. Dante can rinse them in 72 minutes by himself. It will take his friend Deon 120 minutes to rinse these dishes. How long will it take them if they rinse these 720 dishes together?

$$\text{Dante } \frac{720}{72} = 10 \text{ dishes per minute}$$

$$\text{Deon } \frac{720}{120} = 6 \text{ dishes per minute}$$

$$\text{together} = 10 + 6 = 16 \text{ dishes per minute}$$

$$\frac{720}{16} = \boxed{45 \text{ minutes}}$$

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