Complete in this handout:

1. Members of a family decided to invest into their kids' college fund. Each month mom contributes $200. Dad decided to beat her contribution and contributes $250 a month. Grandma decided to contribute even more and puts in $350 each month. Grandpa wants to be the most generous and contributes $400 each month. How long will it take to accumulate $60,000 in the college fund?

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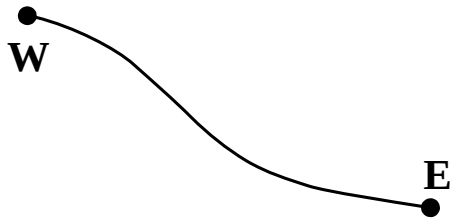
2. Each noon East and West Camps located 30 km apart send messengers to each other.. This time the messenger from the East Camp can run 9 km/h, while the messenger from the West Camp can run 15 km/h.



I. How long will it take the messenger from the ...

a). … East Camp to reach the West Camp?

_____

b). … West Camp to reach the East Camp?

_____

II. When will the two messengers meet?

_____

_____

III. How far from the East Camp will the messengers meet?

_____

3. Present as decimal fractions:

$\frac{1}{10}+\frac{4}{100}+\frac{2}{1000}=$ $3+\frac{2}{10}+\frac{4}{100}+\frac{5}{1000}=$ $3+\frac{2}{10}+\frac{5}{1000}=$

4. A boat moves 18 km/h in a lake. How long will it take to cover …

a). … 63 km in still water?

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b). … 48 km when it moves down a river flowing 6 km/h?

_____

_____

c). … to come back the same 48 km when moving upstream?

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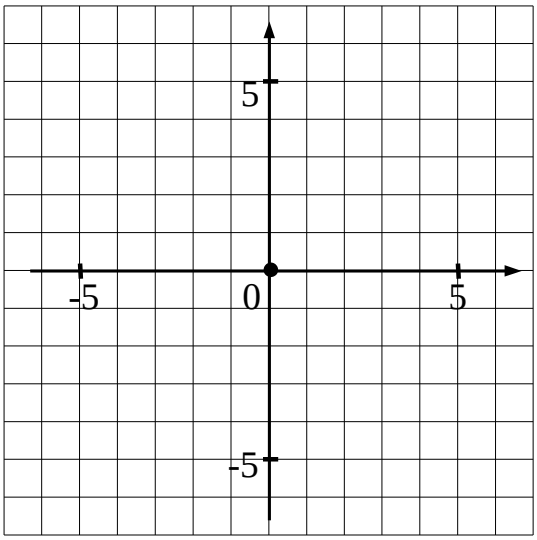
5. Plot vectors $\vec{e}=(3,2)$, $\vec{g}=(-1,3)$, and $\vec{x}=(0,-3)$.

$\vec{e}+\vec{g}=$ (,) $\vec{e}+\vec{x}=$ (,)

$\vec{x}+\vec{g}=$ (,) $\vec{e}+\vec{e}=$ (,)



Complete in your notebook:

6. Calculate:

a) $\dfrac{\frac{1}{2}+\frac{1}{3}}{\frac{1}{2}-\frac{1}{3}}=$ b) $\dfrac{\frac{1}{2}-\frac{1}{3}}{1-\frac{3}{4}}=$ c) $\dfrac{1-\frac{7}{12}}{\frac{1}{2}+\frac{1}{4}}=$

(Answers: 1 – 50 months, 2a – 3 h 20 min, 2b – 2 h, 2-II – 1:15 PM, 2-III – 11¼ km, 4a – 3 h 30 min, 4b – 2 h, 4c – 4 h; 6c – 5, 6b – ⅔, 6c – 5/9)