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 *pieczątka szkoły*

**Bolesławiecki Konkurs Matematyczny dla klas I liceum i klas I i II technikum**

**Etap szkolny**

**8.01.2025 r. godz.** ..............

Imię i nazwisko…………………………………………………………………………………

**Zadanie 1.**

Uzasadnij, że liczba jest podzielna przez 7 i 8.

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Imię i nazwisko………………………………………………………………………………

**Zadanie 2.**

Rozwiąż równanie z niewiadomą y

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**Zadanie 3.**

Stopiono dwa stopy o różnej zawartości cyny i ołowiu. Otrzymano 40 kg stopu, który zawierał 65% cyny. Stosunek wagowy cyny do ołowiu w pierwszym stopie wynosi 3 : 2, a w drugim stopie 2 : 1. Oblicz, ile było kilogramów stopu o większej zawartości cyny?

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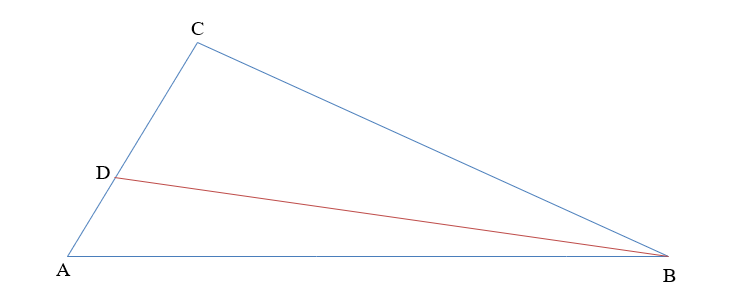
**Etap szkolny**

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**Zadanie 4.**

W trójkącie ABC zaznaczono punkt D na boku AC. Uzasadnij, że



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 *pieczątka szkoły*

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Imię i nazwisko………………………………………………………………………………

**Zadanie 5.**

Dwie krawędzie pewnego prostopadłościanu wydłużono o 10% i 20%. O ile należy wydłużyć trzecią krawędź, aby tak otrzymany prostopadłościan miał objętość o 164% większą od początkowego?

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