

NAME: _____

DATE: _____

PARTNER: _____

QUANTITATIVE SEPARATION OF A MIXTURE OF SAND AND SALT

1. Unknown number _____
2. Mass of empty beaker _____ g
3. Mass of beaker and sample _____ g
4. Mass of sample (*calculated*) _____ g
5. Mass of watch glass and filter paper _____ g
6. Mass of watch glass and filter paper and sand _____ g
7. Mass of sand (*calculated*) _____ g
8. Percent of sand in mixture (*calculated*) _____ %

(Show calculations below):

9. Total volume of liquid collected (filtrate) _____ ml

10. Volume of liquid evaporated _____ ml

11. Fraction of total filtrate evaporated (*calculated*) _____

12. Mass of evaporating dish _____ g

13. Mass of evaporating dish and salt _____ g

14. Mass of salt obtained (*calculated*) _____ g

15. Total mass of salt in mixture (*calculated*) _____ g

16. Percent of salt in mixture (*calculated*) _____ %

(Show calculations below):

17. Total mass of mixture recovered (line 7 + line 15) (*calculated*) _____ g

18. Percent Recovery (*calculated*) _____ %

(Show calculations below):