

## Efficiency

### Questions of efficiency

The efficiency of a machine can be worked out using the equation:

$$\text{Efficiency} = \frac{\text{useful energy output}}{\text{total energy input}}$$

Use this equation to answer the following questions:

- 1 An engine has an energy input of 100 J and gives out 27 J of useful kinetic energy. What is the efficiency of the engine?

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- 2 A hair dryer has an energy input of 1500 J and gives out 1300 J of useful energy. What is the efficiency of the hair dryer?

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- 3 Compare these two machines to decide which is more efficient.
- i Machine A uses 1000 J of energy to do 300 J of useful work.
  - ii Machine B uses 500 J of energy to do 200 J of useful work.

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- 4 Compare these two cranes to decide which is the more efficient.
- i Crane A uses 800 J of energy to do 350 J of useful work.
  - ii Crane B uses 750 J of energy to do 300 J of useful work.

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# Efficiency Problems Worksheet With Answers

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