

Name:

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Check your answers against those on my website as you work!

### Unit Conversion 4 - Review!

**Convert the values to a common unit rate, then compare.**

1) A grocery store sells juice for the following prices. Which is the best deal?

a) \$2.25 for 1 L

**\$2.25/L**

b) \$8 for 4 L

**\$2/L**

c) \$4 for six 400mL bottles

**\$1.67/L - best deal**

2) Which is the fastest speed?

a) 2.5m/s

**2.5m/s**

b) 200m/min

**3.33m/s**

c) 7km/h

**1.94m/s**

d) 300km/day

**3.47m/s - fastest**

3) What wage is the highest for a 40-hour, 5-day work-week?

a) \$18/h

**\$37 440/yr - highest**

b) \$140/day

**\$36 400/yr**

c) \$30 000/yr

**\$30 000/yr**

d) \$2 400/month

**\$28 800/yr**

**Convert the following using the factor-label method.**

- 4) 3km/h to mm/s **833.33mm/s**
- 5) \$25/year to \$/s **\$0.0000007/s**
- 6) 18.1mL/s to L/yr **570801.6L/yr**
- 7) \$6/day to \$/decade **\$21 900/decade**
- 8) 3.3cm/s to km/yr **1 040.69km/yr**
- 9) 2.7g for 300mL to kg/L **0.009kg/L**
- 10) \$1.29 for 35g to \$/kg **\$36.86/kg**
- 11) \$43 000 over 12 years to \$/day **\$9.82/day**
- 12) 145mm/yr to cm/day **0.0397cm/day**
- 13) 20 000m/s to km/yr **630 720 000 km/yr**
- 14) 0.43m to km **0.00043km**
- 15) 25 000km to mm **25 000 000 000mm**

Highlight or put a star next to questions that stumped you!

16) 200mL in 5km to L/m 0.000 04L/m

17) 900km/h to cm/s 25 000cm/s

Highlight or put a star next to questions that stumped you!