

What's a fair price for each cup size

movie theater:

- ★ 1.3L / \$5.99 large
- ★ 790 mL / \$4.99 medium
- ★ 340 mL / \$4.25 small

Grocery store:

- ★ 6x 710 mL / \$5.29 = 4,260 mL → \$0.88 per can
- ★ 6x 237 mL / \$2.99 = 1,422 mL → \$0.49 per can
- ★ 6x 237 mL / \$5.49 = 1,422 mL → \$0.91 per can
- ★ 3x 2L / \$6.00 = 6,000 mL → \$2 per bottle
- ★ 12x 395 mL / \$10.00 = 4,740 mL → ~~0.83~~ \$0.83 per can

First, with corresponding colours we matched each of the movie theatre quantities with the closest (quantity wise) from the grocery store. To find a compromise, we then found the mean for each quantity:

LARGE: \$4.82
 MEDIUM: \$2.93
 SMALL: \$2.54

Now that we've found compromise, we between the prices:

LARGE:

4.82 1300 mL x = \$2.92 for medium
 x 790 mL
 4.82 1300 mL = \$1.26 for small
 x 340 mL \$4.82 large

MEDIUM:

\$2.93 790 mL x = \$4.82 for large
 x 1300 mL
 \$2.93 790 mL x = \$1.26 for small
 x 340 mL \$2.93 medium

SMALL:

\$2.54 340 mL x = \$9.71 for large
 x 1300 mL
 \$2.54 340 mL x = \$5.90 for medium
 x 790 mL \$2.54 small