1) a rare baseball card is regularly priced at $36.50. If the card is marked down 30%, what is the sale price?

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$.3(36.50) = 10.95$

$$\begin{array}{r} 36.50 \\ -10.95 \\ \hline \$\ 25.55 \end{array}$$

2) There are 250 people at a baseball card show. If 225 of them are Oriole fans, what percentage are Oriole fans?

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2) There are 250 people at a baseball card show. If 225 of them are Oriole fans, what percentage are Oriole fans?

$225 = x \cdot 250$

$\frac{225}{250} = x$

$\frac{9}{10} = x$ 90%

3) at another card show 240 of the 300 in attendance are Redsox fans. The % of Redsox fans is how much less than the % of Oriole fans at the other show (problem 2)?

3) at another card show 240 of the 300 in attendance are Redsox fans. What is the difference in % with the Oriole fans at the other show (problem 2)?

$\frac{240}{300} = x$

$\frac{4}{5} = x = 80\%$ for B

90% for A (from #2)

So 10%

4) A team wins 60% of its first 20 games and 80% of the next 30 games. What % of all the games did the team win?

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60% of 20 = .6(20) = 12 games

80% of 30 = .8(30) = 24 games

36 games

$\frac{36}{50} = \frac{72}{100} = 72\%$

5) $m + .2m = n$

$n - .5n = p$

$p - .35p = Q$

if m + 20% of m is n, and
n minus 50% of n is p, and
p minus 35% of p is Q,
what percent of m is Q?

5)

$m + .2m = n$

$n - .5n = p$

$p - .35p = Q$

$1.2m = n$

$.5n = p$

$.65p = Q$

$.65(.5n) = Q$

$(.65)(.5)(1.2m) = Q$

$.39m = Q$

39%

6) in 1965 the price of a pack of baseball cards was x. By 1970 the price had increased by 30%. In 1975 the price had increased 50% from the 1970 price. What percent increase was there from 1965-1975

$1965 = X$

$1970 = 1.3X$

$1975 = 1.5(1.3x) = 1.95X$

95% greater

6) in 1965 the price of a pack of baseball cards was x. By 1970 the price had increased by 30%. In 1975 the price had increased 50% from the 1970 price. What percent increase was there from 1965-1975

7) If a small truck is carrying 1 ton of junk, and that is 90% of the capacity for the truck, what is the truck's capacity in tons?

1 ton = 90% total

1 ton = .9x

$\frac{1}{.9} = x$ 1.11 tons

7) If a small truck is carrying 1 ton of junk, and that is 90% of the capacity for the truck, what is the truck's capacity in tons?

8) 30% of 2x times 2% of x is what % of (3 times x squared?)

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8) 30% of 2x times 2% of x is what % of 3 times x squared?

$[.3(2x)](.02x) = ?\%\ 3x^2$

$.3(2)(.02)x^2 = p(3)x^2$

x^2's cancell!! let p = percent

$(.3)(2)(.02) = p(3)$

$.012 = 3p$

$.004 = p$

.4%