CHECK ANSWERS: ch.3 #41-45, 51ab, 32

#51a→sketch tree diagram or area model
#32a→sketch tree diagram
#44→use area model to multiply given expressions

$\frac{1}{12}$ $\frac{1}{3}$ $\frac{4}{52}$ $\frac{4}{52}$ $\frac{8}{52}$ $\frac{13}{52}$ $\frac{16}{52}$ $\frac{40}{52}$ no points = 40%

$\frac{2}{6}$ *or* $\frac{1}{3}$ $\frac{3}{6}$ *or* $\frac{1}{2}$ $\frac{1}{6}$ $\frac{1}{2}$ no yes some points = 60%

No, the two shortest sides add to 17, so 20 is too large for the third side.
(10 + 7 = 17 and 10 – 7 = 3 so 3rd side must be between 3 and 17.)

0 $\frac{36}{5}$ *or* 7.2 24 40 $-5y^2 - 7y + 6$ $3m^2 - 4m - 15$

$12x^3 + x^2 - 60x - 5$ $2x^2 + 17x + 30$