$\times (1.04)^6$	15% increase for 7 years	$\times (1.12)^8$	5% decrease for 3 years
$\times (1.15)^7$	25% increase for 4 years	$\times (0.95)^8$	12% increase for 6 years
$\times (1.15)^2$	17.5% increase for 4 years	$\times (1.12)^6$	17% decrease for 3 years
$\times (1.05)^6$	15% decrease for 2 years	$\times (0.83)^3$	15% decrease for 3 years
$\times (1.175)^6$	5% decrease for 8 years	$\times (0.85)^3$	50% increase for 5 years
$\times (0.95)^3$	35% increase for 7 years	$\times (1.5)^5$	15% decrease for 1 year
$\times (0.5)^5$	6% decrease for 4 years	$\times (0.85)$	25% increase for 8 years
$\times (1.06)^8$	15% increase for 2 years	$\times (1.25)^8$	12% decrease for 3 years
$\times (1.25)^4$	5% increase for 6 years	$\times (1.75)^4$	17.5% increase for 6 years

$\times (0.94)^7$	15% increase for 4 years	$\times (1.35)^7$	50% decrease for 5 years
$\times (0.96)^5$	4% increase for 6 years	$\times (1.5)^6$	60% increase for 4 years
$\times (0.95)^6$	17% increase for 4 years	$\times (0.94)^4$	35% decrease for 3 years
$\times (1.125)^9$	50% increase for 6 years	$\times (1.17)^4$	25% decrease for 5 years
$\times (0.75)^5$	6% decrease for 7 years	$\times (0.65)^3$	5% decrease for 6 years
$\times (1.35)^2$	4% decrease for 5 years	$\times (1.175)^4$	35% increase for 2 years
$\times (1.6)^4$	6% increase for 8 years	$\times (1.15)^4$	75% increase for 4 years
$\times (0.85)^2$	12% increase for 8 years	$\times (0.88)^3$	12.5% increase for 9 years

Teaching notes

Cut out the cards and laminate if desired. The cards are not given in order so can be given to students to cut out. The set of cards creates a continuous loop when each compound percentage change is matched with its multiplier.

These cards can be used as:

- a small group activity. Each group is given a set of cards for them to match into a chain across their desks.
- a whole class activity. Each student is given a card. One student stands and reads out the worded 'question'. The student who has the corresponding multiplier stands, reads it out, then reads out the 'question' on their card. The activity continues until each student has read out their card.

Answers (reading down the page)

$\times (1.04)^6$	15% increase for 7 years
$\times (1.15)^7$	25% increase for 4 years
$\times (1.25)^4$	5% increase for 6 years
$\times (1.05)^6$	15% decrease for 2 years
$\times (0.85)^2$	12% increase for 8 years
$\times (1.12)^8$	5% decrease for 3 years
$\times (0.95)^3$	35% increase for 7 years
$\times (1.35)^7$	50% decrease for 5 years
$\times (0.5)^5$	6% decrease for 4 years
$\times (0.94)^4$	35% decrease for 3 years
$\times (0.65)^3$	5% decrease for 6 years
$\times (0.95)^6$	17% increase for 4 years
$\times (1.17)^4$	25% decrease for 5 years
$\times (0.75)^5$	6% decrease for 7 years
$\times (0.94)^7$	15% increase for 4 years
$\times (1.15)^4$	75% increase for 4 years
$\times (1.75)^4$	17.5% increase for 6 years

$\times (1.175)^6$	5% decrease for 8 years
$\times (0.95)^8$	12% increase for 6 years
$\times (1.12)^6$	17% decrease for 3 years
$\times (0.83)^3$	15% decrease for 3 years
$\times (0.85)^3$	50% increase for 5 years
$\times (1.5)^5$	15% decrease for 1 year
$\times (0.85)$	25% increase for 8 years
$\times (1.25)^8$	12% decrease for 3 years
$\times (0.88)^3$	12.5% increase for 9 years
$\times (1.125)^9$	50% increase for 6 years
$\times (1.5)^6$	60% increase for 4 years
$\times (1.6)^4$	6% increase for 8 years
$\times (1.06)^8$	15% increase for 2 years
$\times (1.15)^2$	17.5% increase for 4 years
$\times (1.175)^4$	35% increase for 2 years
$\times (1.35)^2$	4% decrease for 5 years
$\times (0.96)^5$	4% increase for 6 years