

2014

Data for Question 17 (3 points)

Plan type: Statutory hybrid (cash balance).

The plan permits an immediate lump sum payment equal to the participant's hypothetical account balance upon termination of employment.

Selected assumptions as of 1/1/2015:

Interest crediting rate	5.5%
Segment rates	{4.0%, 5.0%, 6.0%}
Form of payment	Lump sum

Data for participant Smith as of 1/1/2015:

Age	62
Account balance	\$500,000

Question 17

In what range is the funding target for participant Smith as of 1/1/2015?

- (A) Less than \$500,000
- (B) \$500,000 but less than \$520,000
- (C) \$520,000 but less than \$540,000
- (D) \$540,000 but less than \$560,000
- (E) \$560,000 or more

2014

Data for Question 45 (4 points)

Valuation date: 1/1/2015.

Type of plan: Statutory hybrid (cash balance).

Annual compensation credit: \$50,000, provided on the last day of each plan year.

Interest crediting rate: Actual rate of return on plan assets on the beginning of year balance.

Segment rates: {5.0%, 6.0%, 7.0%}.

Interest crediting rate assumption:

Prior to 1/1/2015	0.0%
On and after 1/1/2015	4.0%

Assumed form of payment: Lump sum.

Historical rate of return on plan assets:

2012	(10)%
2013	(12)%
2014	0%

Data for participant Smith:

Date of birth	1/1/1955
Date of hire	1/1/2012

\$X is the change in the 1/1/2015 funding target for Smith due to the assumption change.

Question 45

In what range is \$X?

- (A) Less than \$19,000
- (B) \$19,000 but less than \$21,000
- (C) \$21,000 but less than \$23,000
- (D) \$23,000 but less than \$25,000
- (E) \$25,000 or more

2015

Data for Question 41 (4 points)

Type of plan: Hybrid (cash balance).

Segment rates: {5.0%, 6.0%, 7.0%}.

Interest crediting rate: 4.0%, credited at the end of the year on the beginning of year balance.

Assumed form of payment: Single life annuity.

Selected data for participant Smith as of 1/1/2016:

Gender	Male
Date of birth	1/1/1956
Hypothetical account balance	\$100,000

Age 65 single life annuity value per plan's fixed actuarial equivalence basis: 12.21.

Question 41

In what range is the funding target for Smith as of 1/1/2016?

- (A) Less than \$73,000
- (B) \$73,000 but less than \$82,000
- (C) \$82,000 but less than \$91,000
- (D) \$91,000 but less than \$100,000
- (E) \$100,000 or more

2015

Data for Question 55 (3 points)

Valuation date: 1/1/2016.

Type of plan: Hybrid (cash balance).

Death benefit: Hypothetical account balance as of the date of death.

Interest crediting rate: 4.0% credited at the end of the year on the beginning of year balance.

Segment rates: {5.0%, 6.0%, 7.0%}.

No pre-retirement decrements other than death are assumed.

Deaths are assumed to occur at the beginning of the year.

Selected data for sole participant Smith:

Date of birth	1/1/1954
Marital status	Single
Hypothetical account balance as of 1/1/2016	\$100,000

Selected mortality rates:

Age	<u>62</u>	<u>63</u>	<u>64</u>
q_x	0.0060	0.0069	0.0077

$\$X$ is the portion of the funding target due to the death decrement.

Question 55

In what range is $\$X$?

- (A) Less than \$2,030
- (B) \$2,030 but less than \$2,070
- (C) \$2,070 but less than \$2,110
- (D) \$2,110 but less than \$2,150
- (E) \$2,150 or more